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**Immediate Response Action Status
Report No. 7 and Remedial
Monitoring Report No. 10**

50 Tufts Street, Somerville, Massachusetts

Submitted to:

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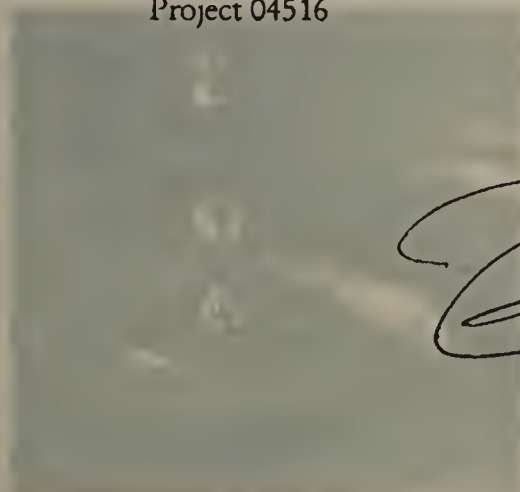
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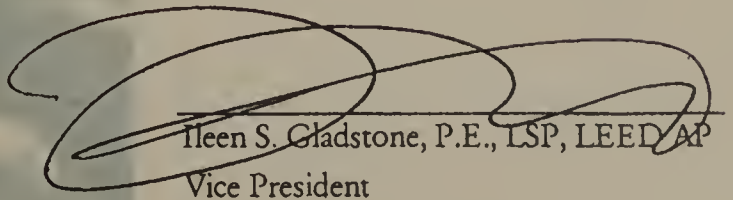

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Acronyms and Abbreviations

1,1-DCE	1,1-dichloroethylene
BHCC.....	Bunker Hill Community College
BWSC	Boston Water and Sewer Commission
CEP	Critical Exposure Pathway
cfm	cubic feet per minute
cm/s	centimeters per second
DEP	Massachusetts Department of Environmental Protection
EMP	Environmental Monitoring Plan
EPA	United States Environmental Protection Agency
EPEM.....	Exposure Pathway Elimination Measure
ft ²	square foot/feet
HP	horsepower
IRA.....	Immediate Response Action
lb(s)	pound/pounds
lbs/yr	pounds per year
MBTA.....	Massachusetts Bay Transportation Authority
MCP	Massachusetts Contingency Plan
PCE	tetrachloroethylene (perchloroethylene)
PID	photoionization detector
ppm	parts per million
RMR.....	Remedial Monitoring Report
RTN.....	Release Tracking Number
SF ₆	sulfur hexafluoride
SSDS	sub-slab depressurization system
SRM	Substantial Release Migration
SVE	soil vapor extraction
TCA.....	1,1,1-trichloroethane
TCE	trichloroethylene
TRA.....	Transit Realty Associates
VOC	volatile organic compound

Executive Summary

On behalf of UniFirst Corporation (UniFirst) of Wilmington, Massachusetts, GEI Consultants, Inc. (GEI) prepared this Immediate Response Action (IRA) Status Report No. 7 and Remedial Monitoring Report (RMR) No. 10 for the Site identified as 50 Tufts Street in Somerville, Massachusetts (Fig. 1-1). This IRA Status Report No. 7 and RMR No. 10 documents activities associated with the 50 Tufts Street Site from October 1, 2008 through April 10, 2009.

Based on the results of assessments conducted to date, the Site includes the 50 Tufts Street property (the Property), residential and commercial properties in the neighborhood to the east and west of the Property, and the Michael E. Capuano Early Childhood Center (Capuano Center; Fig. 1-2). The Property is approximately 51,111 square feet (ft²) and developed with an approximately 20,594 ft², one-story, masonry block building. The majority of the building is warehouse space and a small portion is office space.

Chlorinated volatile organic compounds (VOCs), particularly tetrachloroethylene (also called perchloroethylene [PCE]), have been measured in soil, groundwater, soil vapor, and indoor air at the Site.

For tracking and reporting purposes, Massachusetts Department of Environmental Protection (DEP) Release Tracking Numbers (RTNs) for this Site have been consolidated under one number, RTN 3-23246. The IRA Plan associated with RTN 3-23246 was submitted to DEP on January 9, 2006. The Site is currently classified Tier IC (Permit No. W085813). The “Phase I Initial Site Investigation” was submitted on June 16, 2006. The “Phase II Comprehensive Site Assessment, Method 3 Risk Characterization, and Phase III Remedial Action Plan” (Phase II/III) for the Site was submitted to DEP on July 14, 2008.

GEI conducted an evaluation of the MBTA storm drain system located south of the Property and concluded that the potential exists for concentrations of chlorinated VOCs associated with the Site to be detectable in the Millers River, which represents a potential condition of Substantial Release Migration (SRM). GEI notified DEP of the reportable condition on December 19, 2008. DEP assigned Release Tracking Number 3-28231 to the IRA condition. Additional assessment activities are being conducted under RTN 3-28231. No additional utility sampling activities will be conducted under RTN 3-23246.

Response actions performed as part of the IRA from October 1, 2008 through April 10, 2009 include:

- Monitoring of the sub-slab depressurization system (SSDS) at the Capuano Center;
- Continuing to monitor the indoor air quality of the Capuano Center;
- Evaluating indoor air quality and the potential for the migration of sub-slab soil vapor into the indoor air of residences and commercial buildings in the vicinity of the Property;
- Installing an exposure pathway elimination measure (EPEM) at seven residential properties;
- Initiating the installation of EPEMs at two additional residential properties;
- Continuing to monitor indoor air quality in the building on the Property;
- Conducting periodic monthly monitoring of the SSDS and soil vapor extraction (SVE) system operating at the Property; and
- Conducting subsurface investigations, including sampling and testing groundwater, measuring groundwater levels, and evaluating subsurface utilities.

Capuano Center

As a result of indoor air testing for VOCs conducted in December 2006, GEI installed an SSDS in the south wing of the Capuano Center to control the migration of chlorinated VOC vapors from beneath the floor slab into indoor air. The SSDS was activated on February 1, 2007, and has been operating continuously since that time.

From October 1, 2008 through April 10, 2009, GEI continued to monitor the effectiveness of the mitigation measures at the Capuano Center by performing the following activities:

- Monthly mechanical inspections of the SSDS through February 2009; and
- Indoor and outdoor air sampling in November 2008 and March 2009.

Residential and Commercial Buildings

GEI continued its indoor air monitoring program and conducted sampling in 32 buildings during this reporting period. To date, GEI has recommended installing EPEMs at 31 buildings to mitigate the potential vapor intrusion exposure pathway. Seven property owners have refused to permit the installation of an EPEM; GEI therefore considers it infeasible to prevent, mitigate or eliminate a Critical Exposure Pathway (CEP) at these properties.

GEI identified four residences where PCE was detected only in the basement. These properties originally were not classified as having CEPs, as GEI did not consider the basements occupied living space. Exposure to concentrations of PCE detected in the basements constituted a condition of No Significant Risk (NSR). However, DEP has recently stated that basements are considered occupied space and the detection of any level of PCE in the basement is a CEP. GEI is currently arranging to have air purifiers installed in these homes to mitigate the CEP. GEI has also identified two residences where PCE was detected on the first floor at a concentration that constitutes a condition of NSR. An air purifier has been installed in one of the homes and GEI is arranging to have an air purifier installed in the other home to mitigate the CEP. GEI is currently evaluating the feasibility of alternative technologies to further mitigate the CEPs identified at these six properties, since the concentrations constitute a condition of NSR. We will continue to monitor the indoor air of these residences as we conduct this evaluation.

To mitigate the vapor intrusion exposure pathway in those residences and commercial buildings where the pathway has been identified as a concern, GEI is installing EPEMs. Based on the competency of a building's floor slab and basement walls, there are currently three different EPEM options:

- **Option 1 (SSDS)** – An SSDS is appropriate for buildings with a competent concrete floor slab, cast-in-place concrete walls, and good sub-slab air flow. Sub-slab vapors are actively vented through a piping network that discharges through an exhaust pipe above the roofline.
- **Option 2 (vapor trench)** – This option is appropriate for buildings with a competent concrete floor, a fieldstone or brick foundation, and poor sub-slab air flow. Sub-slab vapors are passively vented through a piping network that discharges through an exhaust pipe above the roofline.
- **Option 3 (new slab installation)** – This option is appropriate for buildings with an incompetent concrete floor, fieldstone or brick foundation, and poor sub-slab air flow. Sub-slab vapors are passively vented through a piping network that discharges through an exhaust pipe above the roofline. Existing slab removal and vapor sump installation will be determined based on site-specific conditions.

To date, GEI has overseen the installation of 18 EPEMs at residential and commercial properties at the Site. During this reporting period, EPEMs were installed at seven residential properties and are in progress at three. These three EPEMs are scheduled to be completed during spring 2009.

50 Tufts Street

GEI has operated an SSDS beneath the building on the Property since April 30, 2007, and an SVE outside the building since August 22, 2007. Monitoring data collected during this reporting period indicates that the systems continue to meet their remedial objectives. The building at the Property is currently occupied by John's Auto Sales, a used car dealership.

Monitoring data collected for the SSDS show vacuum influence at the sub-slab monitoring points inside the building, which indicates that the system is capturing soil vapor beneath the slab. Similarly, monitoring data collected for the SVE shows vacuum influence up to 50 feet from the building in the south parking area, and up to 100 feet from the building in the north parking area, extending onto the 60 Tufts Street property. Continuous operation of both systems has resulted in reduced VOCs in soil vapor, indicating the removal of significant contaminant mass at the Property. Indoor air samples were collected at the Property on March 9, 2009.

Subsurface Investigations

Groundwater sampling events were conducted in October 2008 and January 2009. Groundwater level measurements were recorded, and groundwater samples were submitted for chemical testing for VOCs. GEI is currently conducting an evaluation of conditions in a storm drain at the Site under RTN 3-28231.

Planned Activities

At the Capuano Center, GEI and Capuano Center maintenance staff will continue to monitor the operation of the SSDS and GEI will continue to conduct periodic indoor air testing.

At the residences and commercial properties within the Site, GEI will continue to collect indoor air samples to complete three rounds of testing over a one year period at the buildings where prior sub-slab soil vapor sampling and/or indoor air testing results have indicated that the vapor intrusion pathway constitutes a condition of NSR and does not represent a CEP. We will also conduct appropriate monitoring at those properties where EPEMs have been installed. We will continue to install EPEMs in buildings where access has been granted, and to seek access where it has not been refused.

At the Property, GEI plans to sample indoor air in January or February 2010. We will continue to monitor monthly the operation of the SSDS and SVE system at the Property.

GEI will continue to periodically collect groundwater samples from selected monitoring wells for chemical testing.

Remedial Monitoring Report No. 10

The RMR addresses Active Remedial Systems operated during this reporting period. This includes the SSDS installed in January 2007 at the Capuano Center; the SSDS and SVE system on the Property that began operating on April 30, 2007 and August 22, 2007, respectively; and Option 1 EPEMs operating at residential and commercial properties. SSDSs are operating at seven properties. An SSDS was installed at one residential property during the reporting period.

1. Introduction

On behalf of UniFirst Corporation (UniFirst) of Wilmington, Massachusetts, GEI Consultants, Inc. prepared this Immediate Response Action (IRA) Status Report No. 7 and Remedial Monitoring Report (RMR) No. 10 in accordance with 310 CMR 40.0000, the Massachusetts Contingency Plan (MCP). The work discussed within this report was conducted as part of IRA activities for the Site identified as 50 Tufts Street in Somerville, Massachusetts (the Site; Fig. 1-1). Based on the results of assessments conducted to date, the Site includes the 50 Tufts Street property (the Property), properties in the neighborhoods east and immediately west of the Property, and the Michael E. Capuano Early Childhood Center (Capuano Center) located at 150 Glen Street (Fig. 1-2).

1.1 Background

For tracking and reporting purposes, Massachusetts Department of Environmental Protection (DEP) Release Tracking Numbers (RTNs) for this Site have been consolidated under one number, RTN 3-23246. The IRA Plan associated with RTN 3-23246 was submitted to DEP on January 9, 2006. The Site is currently classified Tier IC (Permit No. W085813). The “Phase II Comprehensive Site Assessment, Method 3 Risk Characterization, and Phase III Remedial Action Plan” (Phase II/III) for the Site was submitted to DEP on July 14, 2008.

GEI conducted an evaluation of the MBTA storm drain system located south of the Property and concluded that the potential exists for concentrations of chlorinated VOCs associated with the Site to be detectable in the Millers River, which represents a potential condition of Substantial Release Migration (SRM). GEI notified DEP of the reportable condition on December 19, 2008. DEP assigned Release Tracking Number 3-28231 to the IRA condition. Additional assessment activities are being conducted under RTN 3-28231. No additional utility sampling activities will be conducted under RTN 3-23246.

Previous regulatory submittals to DEP by UniFirst (since January 2006) that document IRA and other activities at the Site are summarized in Table 1-1. A detailed Site description and a summary of the history of releases and response actions conducted at the Site are documented in previously submitted reports.

Chlorinated volatile organic compounds (VOCs), particularly tetrachloroethylene (PCE), have been detected in soil, groundwater (shallow and deep overburden, and bedrock), soil vapor, and indoor air at portions of the Site. The detection of chlorinated VOCs in indoor air at some buildings required the implementation of an IRA. IRA activities by UniFirst began at the Site in March 2006 and have primarily included:

- Conducting Site-wide indoor air and subsurface sampling and testing;
- Mitigating vapor intrusion pathways resulting in measurable concentrations of chlorinated VOCs above laboratory reporting limits in living or working spaces in occupied residences and at the Capuano Center (a condition defined as a Critical Exposure Pathway (CEP) in the MCP), if feasible; and
- Mitigating vapor intrusion pathways resulting in concentrations of chlorinated VOCs measured in indoor air at commercial buildings above those that would constitute a condition of NSR, based on a Method 3 Risk Characterization.

1.2 Contact Information

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The reports submitted to DEP by GEI related to RTN 3-23246, detailing the IRA and other activities conducted at the Site since 2006, are listed in Table 1-1.

1.3 Purpose

The purpose of this submittal is to provide a description and the results of IRA activities conducted from October 1, 2008 through April 10, 2009, including:

- Monitoring the SSDS operating at the Capuano Center;
- Evaluating indoor air quality and the potential for the migration of sub-slab soil gas into the indoor air of residences and commercial buildings in the vicinity of the Property;
- Installing exposure pathway elimination measures (EPEMs) at seven residential properties;
- Adding a crawl space vapor barrier to the EPEM at 27 Tufts Street;
- Initiating the installation of EPEMs at three residential properties;
- Continuing to monitor indoor air quality in the building on the Property; and

- Conducting monthly monitoring of the sub-slab depressurization system (SSDS) and soil vapor extraction (SVE) system operating at the Property.

RMR No. 10, which documents the operation and monitoring of Active Remedial Systems at the Site, is provided in Section 7 of this report.

1.4 Submittals

IRA Transmittal Forms (BWSC105, BWSC105A, and BWSC105B) for RTN 3-23246 were submitted through eDEP (Transaction No.240616) on May 11, 2009. Copies of the transmittal forms and receipts are in Appendix A.

1.5 Public Involvement (310 CMR 40.1400)

GEI provides key documents to the local public repositories associated with the Site, which are located at the Somerville Central Public Library and the City of Somerville Clerk's Office. GEI also provides electronic versions of the repository documents to the City for posting to its web site.

The City of Somerville and individual property owners were provided a pre-sampling "Notice of Environmental Sampling" (BWSC-123 Form) prior to sampling, and were given copies of the chemical testing results for samples collected on their properties once final results were received from the laboratory. Copies of the letters enclosing BWSC-123 Forms and chemical testing results were provided to DEP at the time they were mailed to property owners.

GEI sent the City of Somerville and individual property owners an "Information Notice about Immediate Response Actions" (BWSC-124 Form) for any mitigation measures performed as an IRA, such as installation of an air purifier or an EPEM. Copies of the letters enclosing the BWSC-124 Forms were provided to DEP at the time they were mailed to property owners.

To inform City of Somerville officials, residents, and other stake holders about activities associated with the Site, UniFirst, the City, and GEI held a community meeting on February 24, 2009. The agenda, presentation, and sign-in sheet for the February 24, 2009 meeting are in Appendix B.

2. Capuano Center IRA Activities

2.1 Introduction

Beginning in December 2006, GEI conducted indoor air sampling at the Capuano Center (Fig. 2-1) as part of the ongoing investigation associated with the Site. Although there were no detectable levels of PCE in the majority of classrooms and common areas, PCE was detected in indoor air samples collected in three classrooms and their associated resource rooms. Based on the results of the indoor air testing, GEI conducted response actions at the Capuano Center, including:

- Reducing the potential migration of sub-slab soil vapor to indoor air by sealing unintended air transfer pathways into the unit ventilators in selected classrooms.
- Installing an SSDS in the south wing of the Capuano Center to control the migration of chlorinated VOC vapors from beneath the floor slab into indoor air. The SSDS was activated on February 1, 2007 and has been operating continuously since.
- Monitoring the effectiveness of the mitigation measures.

Detailed descriptions of the previous sampling efforts, testing results from December 2006 through October 2008, and a description of the design and installation of the SSDS were documented in IRA Status Report No. 1 (RTN 3-26114) and IRA Status Report Nos. 3 through 6 (RTN 3-23246).

The following IRA activities were conducted at the Capuano Center from October 1, 2008 through April 10, 2009:

- Mechanical inspections of the SSDS in October and November 2008 and January, February, and March 2009; and
- Indoor and outdoor air sampling in November 2008 and March 2009.

2.2 SSDS Monitoring

2.2.1 *Monthly Mechanical Inspections of the SSDS*

GEI conducted monthly monitoring of the SSDS in October and November 2008 and January, February, and March 2009. Inspections typically consist of measuring pressure and VOC concentrations using a hand-held manometer and PID at each sub-slab soil vapor monitoring point, exterior extraction point, and the three header pipes, combined influent pipe and effluent pipe in the blower enclosure. The average flow rate is measured at the combined influent pipe. Monthly Inspection Logs for prior reporting periods were included

with previous IRA Status Reports. Monthly Inspection Logs collected during this reporting period are in Appendix C.

The SSDS air flow rates measured from October 2008 through March 2009 ranged from 116 to 129 cubic feet per minute (cfm), with an average flow rate of 121 cfm.

2.3 Air Sampling and Laboratory Testing

On November 24, 2008, GEI collected indoor air samples in five classrooms (Rooms 126, 138, 141, 142, and 146) at the Capuano Center and one outdoor air sample on the roof downwind of the SSDS exhaust stack. GEI also collected indoor air samples in the five classrooms on March 2, 2009.

The sampling surveys, checklists, photograph logs, and laboratory data sheets associated with indoor air sampling at the Capuano Center prior to this reporting period were included in previous IRA Status Reports. The locations of air samples were approximately the same during each sampling event and are shown in Fig. 2-1. Information pertaining to samples collected during this reporting period is discussed below.

2.3.1 Air Sampling – Checklist and Methods

Air samples were collected using 6-liter, polished, stainless-steel, evacuated canisters (SUMMA® canisters) and flow regulators provided by Accutest Laboratories of Marlborough, Massachusetts. Each canister was certified clean by Accutest, and copies of the certifications are in Appendix D.

GEI submitted the samples to Accutest for VOC analysis by the U.S. Environmental Protection Agency (EPA) Method TO-15 with the following modified analytes list:

- | | |
|----------------------------------|-------------------------------|
| ▪ Chloroethane | ▪ 1,1,1-Trichloroethane (TCA) |
| ▪ Carbon Tetrachloride | ▪ 1,1,2,2-Tetrachloroethane |
| ▪ 1,1-Dichloroethane | ▪ 1,1,2-Trichloroethane |
| ▪ 1,1-Dichloroethylene (1,1-DCE) | ▪ Tetrachloroethylene (PCE) |
| ▪ 1,2-Dichloroethane | ▪ Trichloroethylene (TCE) |
| ▪ trans-1,2-Dichloroethylene | ▪ Vinyl Chloride |
| ▪ cis-1,2-Dichloroethylene | |

Pre-Sampling Checklists were completed prior to sampling and Air Sampling Checklists were completed for each sample collected. A photograph was taken of each summa canister and sample location. Copies of the completed Pre-Sampling Checklists are in Appendix E. Air Sampling Checklists and Photo Logs are in Appendix F.

The laboratory-set flow regulator was attached to the canister at the testing location and the pressure gauge reading was recorded. The canister was elevated so that the air inlet was approximately 3 to 5 feet above the floor. The flow regulator was subsequently turned on and the time was recorded. The regulator was turned off after approximately 4 hours, and the time and final pressure gauge reading were recorded.

2.3.2 Air Sampling – Duplicates

A duplicate air sample was collected in Room 138 during each indoor air sampling event at the Capuano Center. A duplicate air sample was created by using a “T splitter” and tubing attached to two canisters so that both canisters were drawing air from the same sample port.

The duplicate air samples were submitted “blind” to Accutest for testing to evaluate the ability of the laboratory to accurately replicate testing results. The calculated relative percentage difference between the duplicate samples for each sampling event between October 1, 2008 and April 10, 2009 was within the acceptable limit of 25 percent.

2.3.3 Air Testing

Prior to air sampling, qualitative measurements of VOC concentrations in indoor air were conducted with a PID and are documented on the sampling logs. PID results around 1 ppm or below were considered estimated because, depending on the model used, the PID is calibrated to a 1 point (isobutylene), 10 parts per million (ppm) or 100 ppm gas standard. PID data for the SSDS were also considered approximate due to the sensitivity of the detector to humidity and temperature, and the likely presence of gases unrelated to the Site that may be detected by the PID.

Air samples were submitted to Accutest for VOC analysis by EPA Method TO-15 and reporting of the site-specific list of compounds (Section 2.2.1). Indoor air chemical testing results are summarized in Table 2-1. Outdoor air chemical testing results are summarized in Table 2-2.

VOCs were not detected above the laboratory reporting limit in any of the indoor or outdoor air samples collected during this reporting period. This is consistent with testing during the previous reporting period (April 1, 2008 through September 30, 2008), as reported in IRA Status Report No. 6.

Additional indoor air sampling will be conducted on a tri-annual basis in February or March, August, and November.

2.3.4 Meteorological Conditions

During air sampling events at the Capuano Center, outdoor meteorological measurements were taken with a portable barometer and thermometer. The measurements were taken before and after sampling, and recorded on the Air Sampling Checklists. The checklists for samples collected during this reporting period are in Appendix F. Meteorological data for all samples collected from the Capuano Center are summarized in Table 2-3.

2.4 SSDS Off-Gas VOC Monitoring

The regulatory requirements for off-gas treatment for remedial air emissions are in DEP's Policy No. WSC-94-150, "Off-Gas Treatment of Point-Source Remedial Air Emissions." Off-gas contaminant treatment is not required for SSDSs that produce a total air emission rate of volatile contaminants of less than 100 pounds per year (lbs/yr). Before installing the SSDS, GEI estimated that the system would produce significantly less than 100 lbs/yr of VOCs and, therefore, we did not install off-gas treatment processes. A description of the SSDS discharge estimate and post-EPEM installation sampling was presented in IRA Status Report No. 3.

GEI has continued to monitor the SSDS using a PID as a screening tool to track relative changes in system effluent. PID monitoring results for this reporting period are noted on the mechanical inspection logs in Appendix C. Depending on the model used, the PID is calibrated to a 1-point, 10 ppm or 100 ppm gas standard, and PID results around 1 ppm or below were considered estimated. PID data for the SSDS were also considered approximate due to the sensitivity of the PID to humidity and temperature. The PID results and the maximum system flow rate of 129 cfm measured during this reporting period indicate the estimated annual discharge rate for the SSDS is significantly less than 100 lbs/yr. Consequently, off-gas contaminant treatment is not required.

2.5 Remediation Waste Management (310 CMR 40.0427(4)(e))

No remediation waste was generated during IRA activities at the Capuano Center during this reporting period.

3. Residential and Commercial Property IRA Activities

3.1 Introduction

Based on groundwater, soil, soil vapor, and indoor air sampling results, GEI identified a several-block area near the Property for evaluation of vapor intrusion as a potential exposure pathway. The properties proposed for evaluation and the type of testing (soil vapor and/or indoor air) are on Fig. 3-1, listed in Table 3-1, and summarized in Section 3.7.

3.2 Property Evaluation

PCE was first detected off-Property in indoor air in seven residences along Tufts Street during at least one of the indoor air sampling events conducted by DEP, Shaw Environmental, and GEI in 2005 and 2006. The presence of PCE (or other chlorinated VOCs) above laboratory reporting limits in the living space of an occupied residential dwelling constitutes a CEP.

GEI established a property evaluation process, which was presented in IRA Plan Modification No. 1, dated April 12, 2007, to evaluate residential and commercial buildings and address identified vapor intrusion pathways. The evaluation process was further detailed in IRA Status Report No. 4.

Based on indoor air sampling results to date, GEI has recommended installation of EPEMs at several buildings within the Site. The recommendations for each building are listed in Table 3-1 and shown on Fig 3-2.

3.3 Indoor Air Sampling

Between January 2006 and May 9, 2009, GEI collected indoor air samples at 68 residences and commercial buildings. Fig. 3-1 shows buildings where GEI conducted indoor air sampling. The procedure for collecting indoor air samples was presented in IRA Status Report No. 3. Samples were typically collected from the basement and first floor of each building.

During this reporting period, GEI collected indoor air samples from 32 residential and commercial properties. Locations and dates for these sampling events are in Table 3-2.

3.3.1 Indoor Air Sampling – Checklists and Methods

GEI typically collected indoor air samples from the basement and first floor of residences and commercial buildings over an approximately 4-hour period using summa canisters and regulators provided by Accutest. Each canister was certified clean by Accutest. Copies of the certifications are in Appendix G.

Flow regulators were attached to the summa canisters at the location of the testing. The summa canisters were placed so that the air inlet was approximately 3 to 5 feet above the floor. The laboratory-set flow regulator was then turned on, and the starting pressure and time recorded. The regulator was turned off after approximately 4 hours, and the final pressure and time were recorded. Indoor Air Sampling Checklists and Photo Logs completed for each indoor air sample collected from a residential or commercial property during this reporting period are in Appendix H.

3.4 Indoor Air Testing

The indoor air samples were submitted to Accutest for laboratory analysis by EPA Method TO-15 and reporting of the site-specific list of compounds (Section 2.3.1). Indoor air testing results are summarized in Tables 3-3 through 3-72. The laboratory data reports are in Appendix G.

As of April 10, 2009, the owners of the following buildings have not granted GEI access to evaluate the vapor intrusion pathway. In each case, GEI either was unable to obtain a response from the owner or was denied access by the owner.

- | | |
|--------------------|-------------------------|
| ▪ 2 Alston Street | ▪ 91 Washington Street |
| ▪ 6 Alston Street | ▪ 113 Washington Street |
| ▪ 12 Alston Street | ▪ 117 Washington Street |
| ▪ 159 Glen Street | |

3.5 Meteorological Conditions

GEI typically measured outdoor meteorological conditions during each of the indoor air sampling events. GEI also typically measured indoor temperature and barometric pressure during indoor air sampling. Measurements were taken with a portable barometer and thermometer, and were recorded on the Indoor Air Sampling Checklists (Appendix H). Meteorological conditions recorded during indoor air sampling events are summarized in Table 3-2.

3.6 Mitigation Measures

To date, GEI has recommended installing an EPEM at 31 buildings; although recommendations for three of these buildings (49 Tufts Street and 103-105 and 111 Washington Street) are being reevaluated, for reasons discussed below. As an initial CEP mitigation measure, GEI installed air purifiers in residences prior to installing an EPEM. Table 3-1 lists the buildings where EPEMs and air purifiers have been installed.

3.6.1 Initial Mitigation Measure – Air Purifiers

GEI installed air purifiers in residences as an initial CEP mitigation measure. Table 3-1 lists the buildings where EPEMs and air purifiers have been installed. Air purifiers are removed from the residences if an EPEM is subsequently installed.

Air purifiers were installed at 19-19A Morton Street and 32 Knowlton Street during this reporting period. GEI continues to maintain air purifiers installed in residences where EPEMs have not been installed, by cleaning the particulate filters approximately every six months.

3.6.2 Exposure Pathway Elimination Measures

GEI is installing EPEMs to mitigate the vapor intrusion exposure pathway in those residences and commercial buildings where the vapor intrusion pathway has been identified as a concern. Based on the competency of a building's floor slab and basement walls, there are currently three different EPEM options:

- **Option 1 (SSDS)** - The SSDS option entails installation of a ventilation piping network plumbed to an electric radon fan outside the building envelope that discharges above the roofline. This option is installed in buildings with cast-in-place concrete foundations and, more generally, where buildings and soil conditions make such a remedial approach feasible (Fig. 3-3a).
- **Option 2 (vapor trench)** - The vapor trench option consists of a ventilation system installed in a shallow trench around the interior basement perimeter, cement stucco applied to the walls, and an epoxy vapor barrier applied to the walls and floor. The trench is backfilled with crushed stone and capped with approximately 3 inches of new concrete to meet the existing slab grade. This option is installed in buildings with a competent concrete floor, a fieldstone or brick foundation, and poor sub-slab air flow. Sub-slab vapors are ventilated through a piping network that exits the building envelope at the sill elevation and extends above the roofline (Fig. 3-3b).
- **Option 3 (new slab installation)** - The new slab installation option consists of a new concrete slab, sub-slab vapor barrier, floor ventilation system, cement stucco applied to the walls, and an epoxy vapor barrier applied to the walls and floor. This option is

installed in buildings with an incompetent concrete slab, fieldstone or brick/fieldstone foundation, and poor sub-slab air flow. Sub-slab vapors are ventilated through a piping network that exits the building envelope at the sill elevation and extends above the roofline (Fig. 3-3c).

To evaluate the effectiveness of each EPEM, two rounds of confirmatory indoor air sampling are conducted at each property. Post-EPEM confirmatory indoor air testing results are summarized in Tables 3-18c, 3-19c, 3-20c, 3-20d, 3-41c, 3-43c, 3-44c, 3, 47c, 3-48c, 3-49c, 3-50c, 3-52c, 3-59c, and 3-61c.

Seven EPEMs were installed and one EPEM was modified at residential properties during this reporting period. The EPEMs were installed by EMS Development, Inc. of Westford, Massachusetts under the supervision of a Massachusetts Licensed Construction Supervisor. In total, between October 2005 and April 10, 2009, EPEMs have been installed at 15 properties.

Previously Installed EPEMs

- 95 Franklin Street
- 95R Franklin Street
- 31-33 Knowlton Street
- 18 Morton Street
- 23 Tufts Street
- 27 Tufts Street
- 103 Washington Street
- 12 Morton

EPEM Installation During this Reporting Period

- 4 Morton Street
- 10 Morton Street
- 11 Morton Street
- 13 Morton Street
- 35-37 Knowlton Street
- 91-93 Franklin Street
- 17 Knowlton Street

3.6.2.1 EPEMs Under Construction

In addition to the 15 EPEMs that have been completed at the Site, three EPEMs are currently in the process of being installed:

- 32 Knowlton
- 19-19A Morton
- 60 Tufts Street

3.6.2.2 Proposed EPEMs

GEI has also recommended the installation of EPEMs at 13 additional properties:

- | | |
|-----------------------|-----------------------------|
| ▪ 16-20 Alston Street | ▪ 17 Tufts Street |
| ▪ 162-164 Glen Street | ▪ 19 Tufts Street |
| ▪ 166-168 Glen Street | ▪ 25 Tufts Street |
| ▪ 9 Knowlton Street | ▪ 49 Tufts Street |
| ▪ 13 Knowlton Street | ▪ 105-107 Washington Street |
| ▪ 9 Tufts Street | ▪ 111 Washington Street |
| ▪ 11-13 Tufts Street | |

To date, the owners of 16-20 Alston Street, 9, 11-13, 17, 19 and 25 Tufts Street, and 111 Washington Street have refused installation of an EPEM in their buildings.

3.6.2.3 Proposed EPEMs Being Re-evaluated: Soil Vapor Only

GEI proposed installing EPEMs at 105-107 and 111 Washington Street based solely on the results of sub-slab soil vapor sampling. To date, those property owners have not consented to installation of an EPEM. GEI has obtained consent from the property owner at 105-107 Washington Street to conduct indoor air sampling, however, and GEI has collected indoor air samples there. The owner at 111 Washington Street has not consented to indoor air sampling.

3.6.2.4 Proposed EPEMs Being Re-evaluated: No Significant Risk

GEI identified four homes, 99 Franklin Street, 12-14 and 23 Knowlton Street and 6-8 Morton Street, where PCE was detected only in the basements. GEI originally did not classify these detections as CEPs, since we did not consider the basements occupied living space.

Exposure to concentrations of PCE detected in the basements constituted a condition of NSR for building occupants who visited the basement 4 hours a day. However, DEP has recently stated that basements are considered occupied living space and therefore the detection of any level of PCE in the basement is a CEP. At 16-20 Alston Street, 9, 11-13, 17, 19, 25 and 49 Tufts Street, and 76 Franklin Street, PCE was detected on the first floor, but at a concentration that constitutes a condition of NSR.

GEI is currently arranging to have an air purifier installed at 76 and 99 Franklin Street, 12-14 and 23 Knowlton Street and 6-8 Morton Street to mitigate the CEP. An air purifier is currently installed at 16-20 Alston Street, 11-13 and 49 Tufts Street. An air purifier had been installed at 25 Tufts Street; however, a tenant took the purifier when they moved out and the owner refused to have a new purifier installed. GEI is currently evaluating the feasibility of alternative technologies to further mitigate these CEPs. (The owners of 16-20 Alston Street

and 11-13 and 25 Tufts Street have refused the installation of EPEMs; therefore, GEI considers it infeasible to prevent or eliminate a CEP at these properties.)

3.7 Summary of IRA Activities at Residential and Commercial Properties

Following is a summary of activities conducted to date at residential and commercial properties located within the Site. All indoor air samples were collected over a 4-hour period, and all soil vapor samples over a 1-hour period, using SUMMA® canisters. Samples were submitted to Accutest for laboratory analysis of the Site-specific list of chlorinated VOCs via EPA Method TO-15.

2 Alston Street - 2 Alston Street is a multi-family residence located approximately 125 feet west of the Property, across the Massachusetts Bay Transit Authority (MBTA) railroad tracks. GEI has not been able to obtain access to the property to conduct indoor air or soil vapor testing.

6 Alston Street - 6 Alston Street is a multi-family residence located approximately 125 feet west of the Property, across the MBTA railroad tracks. GEI has not been able to obtain access to the property to conduct indoor air or soil vapor testing.

10 Alston Street - 10 Alston Street is a residential garage used to park cars and for storage. It is located approximately 125 feet west of the Property, across the MBTA railroad tracks. There is no living space in the building, and it is not classified as an occupied building. Based on the current property use, the vapor intrusion exposure pathway was not evaluated, and an EPEM is not required.

12 Alston Street - 12 Alston Street is a multi-family residence located approximately 125 feet west of the Property, across the MBTA railroad tracks. In April 2007, GEI collected two sub-slab soil vapor samples from beneath the building. PCE was detected in these samples. Based on the soil vapor analytical results, 12 Alston Street was identified as a candidate for indoor air testing to determine the absence or presence of a complete vapor intrusion exposure pathway. GEI has not been able to obtain access to the property to conduct indoor air testing. However, based on the low concentration of PCE in the soil vapor, a complete vapor intrusion pathway is unlikely.

16-20 Alston Street - 16-20 Alston Street is a multi-family residence located approximately 125 feet west of the Property, across the MBTA railroad tracks. In June 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE and TCA were detected above laboratory reporting limits in this sample. In August 2007, GEI collected indoor air samples from the basement and first floor of the building. PCE was detected in the basement

but was not detected above laboratory reporting limits on the first floor. TCA was detected on the first floor, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP.

Based on the indoor air and soil vapor sampling results, a vapor intrusion pathway was identified at 16-20 Alston Street, and an EPEM was recommended. GEI recommended installing an Option 1 EPEM. After many conversations with the current owners, they refused to have the SSDS installed. GEI considers it infeasible to prevent or eliminate a CEP at 16-20 Alston Street since the owners have refused the installation of an EPEM.

30-40 Alston Street - 30-40 Alston Street is a commercial property located approximately 125 feet west of the Property, across the MBTA railroad tracks. Costume and flag manufacturing, including printing, are conducted in the building. The costume manufacturer regularly stores items that have been dry cleaned.

GEI collected six sub-slab soil vapor samples from beneath the property buildings in March 2007. PCE was detected above laboratory reporting limits in five of the six samples. TCA was detected above laboratory reporting limits in four of the six samples.

In February 2007, GEI collected two indoor air samples, one sample at the costume manufacturer and one sample at the flag manufacturer. PCE was detected in each of these samples above laboratory reporting limits. In November 2007, GEI collected two additional indoor air samples at 30-40 Alston Street. PCE was not detected above laboratory reporting limits. In February 2008, GEI again collected two indoor air samples. PCE was detected in the costume manufacturer's and in the flag manufacturer's space.

Based on the results of the indoor air and soil vapor testing conducted at the property, GEI has concluded that the PCE detected in the indoor air is associated with the commercial operations at the property, particularly those of the costume manufacturer, and there is not a complete vapor intrusion pathway. PCE was detected in the indoor air at higher concentrations than in the soil vapor and TCA was detected in the soil vapor, but not in the indoor air. GEI will prepare a Class B-1 Partial RAO for 30-40 Alston Street.

142 Cross Street - 142 Cross Street is a commercial building located at the intersection of Cross and Alston Streets, approximately 150 feet northwest of the Property. The property is currently vacant. A bar and restaurant was formerly located in the building. In April 2007, GEI collected two sub-slab soil vapor samples from beneath the building. PCE was detected in each of these samples above laboratory reporting limits. GEI collected indoor air samples from the basement and first floor in November 2007, June 2008, and January 2009. PCE was not detected above laboratory reporting limits in these samples.

Based on the results of the indoor air and soil vapor testing conducted at the property, GEI has concluded that there is not a complete vapor intrusion pathway and that additional indoor air testing is not required. GEI will prepare a Class B-1 Partial RAO for 142 Cross Street.

Dell Street - GEI collected indoor air samples from the buildings at 6, 9, 10, 14, 16, and 22 Dell Street in January 2007. PCE was not detected above the laboratory reporting limits in these samples. Based on the indoor air testing results, and additional lines of evidence (including concentrations of chlorinated VOCs in shallow groundwater less than the current applicable GW-2 standard in the vicinity of the Dell Street properties (MW113, MW107), and the results of soil vapor sampling at MW113 and MW107 that are consistently below mitigation criteria), Dell Street properties are located outside the Site boundary.

9 Franklin Avenue - 9 Franklin Avenue is a single-family residence located approximately 950 feet east of the Property. No indoor air or soil vapor testing has been conducted at this property. Chlorinated VOCs were not detected above laboratory reporting limits in the shallow groundwater in the vicinity of 9 Franklin Avenue (MW121S). Soil vapor concentrations at MW121S did not indicate the need to further evaluate the vapor intrusion pathway. Based on these lines of evidence, GEI has concluded there is not a complete vapor intrusion pathway. GEI will prepare a Class B-1 Partial RAO for 9 Franklin Avenue.

10 Franklin Avenue - 10 Franklin Avenue is a single-family residence located approximately 900 feet east of the Property. No indoor air or soil vapor testing has been conducted at this property. Chlorinated VOCs were not detected in the shallow groundwater above laboratory reporting limits in the vicinity of 10 Franklin Avenue (MW121S). Soil vapor concentrations at MW121S did not indicate the need to further evaluate the vapor intrusion pathway. Based on these lines of evidence, GEI has concluded there is not a complete vapor intrusion pathway. GEI will prepare a Class B-1 Partial RAO for 10 Franklin Avenue.

12 Franklin Avenue - 12 Franklin Avenue is a multi-family residence located approximately 900 feet east of the Property. No indoor air or soil vapor testing has been conducted at this property. Chlorinated VOCs were not detected above laboratory reporting limits in the shallow groundwater in the vicinity of 12 Franklin Avenue (MW121S). Soil vapor concentrations at MW121S did not indicate the need to further evaluate the vapor intrusion pathway. Based on these lines of evidence, GEI has concluded there is not a complete vapor intrusion pathway. GEI will prepare a Class B-1 Partial RAO for 12 Franklin Avenue.

74 Franklin Street - 74 Franklin Street is a multi-family residence located approximately 800 feet east of the Property. In July 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE was detected in this sample. GEI collected indoor air

samples from the basement and first floor of the building in September 2007, February 2008, and June 2008. PCE was not detected above laboratory reporting limits in these samples.

Based on the results of the indoor air and soil vapor testing conducted at the property, GEI has concluded that there is not a complete vapor intrusion pathway at 74 Franklin Street and additional indoor air testing is not required. GEI will prepare a Class B-1 Partial RAO for 74 Franklin Street.

76 Franklin Street - 76 Franklin Street is a multi-family residence located approximately 800 feet east of the Property. In April 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE was detected in this sample. GEI collected indoor air samples from the basement and first floor of the building in November 2007, February 2008, and June 2008. PCE was not detected above laboratory reporting limits in the samples collected from the basement. PCE was detected at the reporting limit in the first floor sample collected in November 2007.

Based on the indoor air and soil vapor sampling results, a vapor intrusion pathway was identified at 76 Franklin Street. GEI is currently arranging to have an air purifier installed in this home to mitigate the CEP. However, exposure to the concentrations of chlorinated VOCs detected in indoor air constitutes a condition of NSR. GEI is currently evaluating the feasibility of alternative technologies to further mitigate the CEP since exposure to the concentration of PCE in indoor air constitutes a condition of NSR.

80 Franklin Street - 80 Franklin Street is a multi-family residence located approximately 725 feet east of the Property. In June 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE was detected in this sample. GEI collected indoor air samples from the basement and first floor of the building in September 2007, January 2008, and June 2008. PCE was not detected above laboratory reporting limits in these samples.

Based on the results of the indoor air and soil vapor testing conducted at the property, GEI has concluded that there is not a complete vapor intrusion pathway at 80 Franklin Street and additional indoor air testing is not required. GEI will prepare a Class B-1 Partial RAO for 80 Franklin Street.

82 Franklin Street - 82 Franklin Street is a single family residence located approximately 725 feet east of the Property. In March 2007, GEI collected two sub-slab soil vapor samples from beneath the building. PCE was not detected above reporting limits in these samples. GEI collected indoor air samples from the basement and first floor in November 2007, March 2008, and June 2008. PCE was not detected above laboratory reporting limits in these samples.

Based on the results of the indoor air and soil vapor testing conducted at the property, GEI has concluded that there is not a complete vapor intrusion pathway at 82 Franklin Street and additional indoor air testing is not required. GEI will prepare a Class B-1 Partial RAO for 82 Franklin Street.

86 Franklin Street - 86 Franklin Street is a multi-family residence located approximately 675 feet east of the Property. In April 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE was detected in this sample. GEI collected indoor air samples from the basement and first floor in June 2007, November 2007, and February 2008. PCE was not detected above laboratory reporting limits in these samples.

Based on the results of the indoor air and soil vapor testing conducted at the property, GEI has concluded that there is not a complete vapor intrusion pathway at 86 Franklin Street and additional indoor air testing is not required. GEI will prepare a Class B-1 Partial RAO for 86 Franklin Street.

91-93 Franklin Street - 91-93 Franklin Street is a multi-family residence located approximately 700 feet east of the Property, abutting the Capuano Center to the south. GEI collected indoor air samples from the first floor and basement in February 2007. PCE was detected in the basement, which is a CEP, but was not detected in the first floor above laboratory reporting limits. . GEI installed an air purifier as an initial measure to mitigate the CEP. In March 2007, GEI collected a sub-slab soil vapor sample at 91-93 Franklin Street. PCE was detected in this sample.

Based on the indoor air and soil vapor sampling results, a vapor intrusion pathway was identified at 91-93 Franklin Street, and an EPEM was recommended. An Option 3 EPEM was installed and completed in March 2009. GEI collected post-EPEM indoor air samples from the first floor and basement in March 2009. PCE was not detected above laboratory limits in these samples. Indoor air testing indicates that the EPEM is effective. GEI will collect additional confirmatory samples in summer 2009, and summer and winter 2010.¹

Based on the post-EPEM indoor air sampling results, the EPEM has mitigated the vapor intrusion pathway. An AUL will be recorded at the Middlesex South District Registry of Deeds requiring the maintenance of the EPEM at 91-93 Franklin Street to maintain a condition of NSR. GEI plans to prepare a Class A-3 Partial RAO for 91-93 Franklin Street.

95 Franklin Street - 95 Franklin Street is a single family residence located approximately 700 feet east of the Property. In April 2007, GEI collected one sub-slab soil vapor sample

¹ This is consistent with the DEP sampling requirements for Option 2 EPEMs, as required by DEP in the Conditional Approval of IRA Modification No. 10 (January 24, 2008).

from beneath the building. PCE was detected in this sample. Based on this soil vapor result, an EPEM was recommended. An air purifier was installed to mitigate the potential vapor intrusion pathway pending installation of the EPEM.

An Option 1 EPEM was installed and completed in May 2007. GEI collected post-EPEM installation indoor air samples from the basement and first floor in June 2007. PCE was detected in the basement and first floor, which is a CEP. Based on these results, GEI re-installed an air purifier, which is currently operating, and recommended installing an Option 2 EPEM. GEI is currently finalizing an access agreement with the owner and will install an Option 2 EPEM once the agreement is signed.

95R Franklin Street - 95R Franklin Street is a single family residence located approximately 575 feet east of the Property. In March 2007, GEI collected a sub-slab soil vapor sample from beneath the building. PCE was detected in this sample. GEI collected indoor air samples from the first floor and basement in April and June 2007. PCE was detected in each of these samples, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP.

Based on the indoor air and soil vapor sampling results, a vapor intrusion pathway was identified at 95R Franklin Street, and an EPEM was recommended. In May 2007 an Option 1 EPEM was installed in the basement and crawl space. GEI collected post-EPEM installation indoor air samples from the basement and first floor in June 2007. PCE was detected in these samples.

An Option 2 EPEM therefore was installed in December 2007. GEI collected post-EPEM indoor air samples from the basement and first floor on December 23 and December 28, 2007, and in April 2009. PCE was not detected above laboratory limits in these samples. Indoor air testing indicates that the EPEM is effective. GEI will collect additional confirmatory samples in summer 2009, and summer and winter 2010.²

Based on the post-EPEM indoor air sampling results, the EPEM has mitigated the vapor intrusion pathway. An AUL will be recorded at the Middlesex South District Registry of Deeds requiring the maintenance of the EPEM at 95R Franklin Street to maintain a condition of NSR. GEI plans to prepare a Class A-3 Partial RAO for 95R Franklin Street.

97 Franklin Street - 97 Franklin Street is a single family residence located approximately 550 feet east of the Property. In June 2007, GEI collected two sub-slab soil vapor samples from beneath the building. PCE was detected in these samples. GEI collected indoor air

² As required by DEP in the Conditional Approval of IRA Modification No. 10 (January 24, 2008).

samples from the basement and first floor in September 2007, February 2008, July 2008, and January 2009. PCE was not detected above laboratory reporting limits in these samples.

GEI has concluded that there is not a complete vapor intrusion pathway at 97 Franklin Street. However, DEP has required that indoor air samples continue to be collected from "...buildings located substantially within the boundary of the shallow groundwater plume, where shallow groundwater concentrations of chlorinated VOCs are above their applicable Method 1 GW-2 Standard, but where indoor air testing has not identified a CEP in a residence or a Significant Risk in a commercial building. Samples will be collected in summer 2008, winter 2009, and winter 2010."³ GEI therefore will collect an additional winter indoor air sample in 2010 to continue to evaluate the vapor intrusion pathway.

97R Franklin Street - 97R Franklin Street is a single family residence located approximately 500 feet east of the Property. In April 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE was detected in this sample. GEI collected indoor air samples from the basement and first floor in June 2007, February 2008, June 2008, and January 2009, and from the basement only in November 2007. PCE was not detected above laboratory reporting limits in these samples.

GEI has concluded that there is not a complete vapor intrusion pathway at 97R Franklin Street. However, DEP has required that indoor air samples continue to be collected from "...buildings located substantially within the boundary of the shallow groundwater plume, where shallow groundwater concentrations of chlorinated VOCs are above their applicable Method 1 GW-2 Standard, but where indoor air testing has not identified a CEP in a residence or a Significant Risk in a commercial building. Samples will be collected in summer 2008, winter 2009, and winter 2010." GEI therefore will collect an additional winter indoor air sample in 2010 to continue to evaluate the vapor intrusion pathway.

99 Franklin Street - 99 Franklin Street is a single family residence located approximately 550 feet east of the Property. In May 2007, GEI collected a sub-slab soil vapor sample from beneath the building. PCE was detected in this sample. GEI collected one indoor air sample from the basement in June 2007, and collected an indoor air sample from the basement and first floor in February 2008. PCE was detected in the June 2007 and February 2008 basement indoor air samples. PCE was not detected above laboratory reporting limits in the first floor indoor air sample.

An EPEM was not recommended for 99 Franklin Street because PCE was detected only in the basement, and exposure to concentrations detected constituted a condition of NSR for the occupants. However, DEP has recently stated that basements are considered occupied living

³ As required by DEP in the Conditional Approval of IRA Modification No. 12 (May 13, 2008).

space and therefore the detection of any level of PCE in the basement is a CEP. GEI is currently arranging to have an air purifier installed to mitigate the CEP. GEI is currently evaluating the feasibility of alternative technologies to further mitigate the CEP. We will continue to monitor the indoor air of 99 Franklin Street as we conduct this evaluation.

152-154 Glen Street - 152-154 Glen Street is a multi-family residence located approximately 325 feet northeast of the Property. In February 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE was not detected above laboratory reporting limits. GEI collected indoor air samples from the basement and first floor in November 2007, February 2008, and June 2008. PCE was not detected above laboratory reporting limits in these samples.

Based on the results of the indoor air and soil vapor testing conducted at the property, GEI has concluded that there is not a complete vapor intrusion pathway at 152-154 Glen Street and additional indoor air testing is not required. GEI will prepare a Class B-1 Partial RAO for 152-154 Glen Street.

153-155 Glen Street - 153-155 Glen Street is a multi-family residence located approximately 325 feet northeast of the Property. In March 2007, GEI collected two sub-slab soil vapor samples from beneath the building. PCE was detected in each sample. GEI collected indoor air samples from the basement and first floor in November 2007, February 2008, and June 2008. PCE was not detected above laboratory reporting limits in any of these samples.

Based on the results of the indoor air and soil vapor testing conducted at the property, GEI has concluded that there is not a complete vapor intrusion pathway at 153-155 Glen Street and additional indoor air testing is not required. GEI will prepare a Class B-1 Partial RAO for 153-155 Glen Street.

156 Glen Street – 156 Glen Street is a multi-family residence located approximately 325 feet northeast of the Property. In March 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE was not detected in this sample. GEI collected indoor air samples from the basement and first floor in May 2007, September 2008, and January 2009. PCE was not detected above laboratory reporting limits in any of these samples.

Based on the results of the indoor air and soil vapor testing conducted at the property, GEI has concluded that there is not a complete vapor intrusion pathway at 156 Glen Street and additional indoor air testing is not required. GEI will prepare a Class B-1 Partial RAO for 156 Glen Street.

159 Glen Street - 159 Glen Street is a single family residence located approximately 250 feet northeast of the Property. GEI has not been able to obtain access to the property to conduct indoor air or soil vapor testing.

162-164 Glen Street – 162-164 Glen Street is a multi-family residence located approximately 200 feet northeast of the Property. In June 2007, GEI collected two sub-slab soil vapor samples from beneath the building. PCE was detected in one sample. GEI collected indoor air samples from the basement and first floor in August 2007. PCE was detected in the basement and on the first floor, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP.

Based on the indoor air and soil vapor sampling results, a vapor intrusion pathway was identified at 162-164 Glen Street, and an EPEM was recommended. To date, the owner has not agreed to the installation of an EPEM. Discussions are ongoing, however. If an agreement is concluded, then GEI will conduct soil communication testing to determine which EPEM option is appropriate.

163 Glen Street – 163 Glen Street is a commercial building located approximately 175 feet northeast of the Property. In April 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE was detected in this sample. GEI collected indoor air samples in November 2007, February 2008, June 2008, and January 2009. There is no basement in the building and the samples are collected on the first floor. PCE was detected in one sample collected in November 2007 and in both samples collected in June 2008.

Based on the results of the indoor air testing conducted at the property, GEI has concluded that the vapor intrusion exposure pathway is complete at 163 Glen Street. However, exposure to concentrations of chlorinated VOCs in indoor air at the property constituted a condition of NSR for current and future receptors. Based on the current property use (commercial), a CEP does not exist at the property. GEI will prepare a Class B-1 Partial RAO for 163 Glen Street.

166-168 Glen Street – 166-168 Glen Street is a multi-family residence located approximately 150 feet northeast of the Property. In May 2007, GEI collected two sub-slab soil vapor samples from beneath the building. PCE was detected in both samples. GEI collected indoor air samples from the basement and first floor in September 2007. PCE was detected in the basement and on the first floor, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP.

Based on the indoor air and soil vapor sampling results, a vapor intrusion pathway was identified at 166-168 Glen Street, and an EPEM was recommended. To date, the owner has not agreed to the installation of an EPEM. Discussions are ongoing, however. If an

agreement is concluded, GEI will conduct soil communication testing to determine which EPEM option is appropriate.

2 Hadley Court #2A, #2B, and #2C – 2 Hadley Court is a multi-family residence located approximately 450 feet east of the Property. The first floor in each of these units is a parking garage, which is not occupied space.

In June 2007, GEI collected two sub-slab soil vapor samples from beneath unit #2A. PCE was detected in one sample. GEI collected indoor air samples from unit #2A in September 2007, March 2008, June 2008, and February 2009. PCE was not detected above laboratory reporting limits in these samples.

In July 2007, GEI collected one sub-slab soil vapor sample from beneath unit #2B. PCE was detected in this sample. GEI collected indoor air samples from unit #2B in September 2007 and February 2008. PCE was not detected above laboratory reporting limits in these samples.

In June 2007, GEI collected two sub-slab soil vapor samples from beneath unit #2C. PCE was detected in one sample. GEI collected indoor air samples from unit #2C in September 2007, February 2008, June 2008, and February 2009. PCE was not detected above laboratory reporting limits in these samples.

Based on the results of the indoor air and soil vapor testing conducted at the property, GEI has concluded that there is not a complete vapor intrusion pathway and additional indoor air testing is not required. GEI will prepare a Class B-1 Partial RAO for 2 Hadley Court.

9 Knowlton Street – 9 Knowlton Street is a multi-family residence located approximately 325 feet southeast of the Property. In February 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE was detected in this sample. GEI collected indoor air samples from the basement and first floor of the building on June 2007. PCE was detected on the first floor and in the basement, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP.

Prior to indoor air sampling, GEI observed that the owner stored significant quantities of dry cleaning related chemicals and solvents in the basement. The concentration of PCE measured in the basement is almost twice that measured in the soil vapor, even after the storage containers were removed from the basement.

The concentrations in indoor air do not result in an Imminent Hazard or constitute a condition of Significant Risk, in accordance with the MCP, because they are not attributable to the disposal site. However, because PCE was measured in the soil vapor beneath the

building and in the groundwater in the vicinity of the property, GEI recommended installing an Option 1 EPEM. To date, the owner has not agreed to the installation of an EPEM.

12-14 Knowlton Street – 12-14 Knowlton Street is a multi-family residence located approximately 220 feet southeast of the Property. In March 2007, GEI collected two sub-slab soil vapor samples from beneath the building. PCE was detected in each of these samples. GEI collected indoor air samples from the basement and first floor of the building in June 2007, November 2007, August 2008, and January 2009. PCE was detected above laboratory reporting limits in the basement sample collected in November 2007.

An EPEM was not recommended for 12-14 Knowlton Street because PCE was detected only in the basement, GEI did not classify this as a CEP, and exposure to concentrations measured in the basement constituted a condition of NSR for the occupants. However, DEP has recently stated that basements are considered occupied living space and therefore the detection of any level of PCE in the basement is a CEP. GEI is currently arranging to have an air purifier installed to mitigate the CEP. GEI is currently evaluating the feasibility of alternative technologies to further mitigate the CEP. We will continue to monitor the indoor air of 12-14 Knowlton Street as we conduct this evaluation.

13 Knowlton Street - 13 Knowlton Street is a multi-family residence located approximately 325 feet southeast of the Property. There is a basement apartment. In June 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE was detected in this sample. GEI collected indoor air samples from the basement and first floor of the building in August 2007, and collected an indoor air sample in the basement in November 2007. PCE was detected in the basement and on the first floor in August 2007, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP. PCE was not detected above laboratory reporting limits in the basement indoor air sample collected in November 2007.

Based on the indoor air and soil vapor sampling results, a vapor intrusion pathway was identified at 13 Knowlton Street, and an EPEM was recommended. To date, the owner has not agreed to the installation of an EPEM. Discussions are ongoing, however. If an agreement is concluded, GEI will install an Option 1 EPEM.

17 Knowlton Street - 17 Knowlton Street is a multi-family residence located approximately 350 feet southeast of the Property. In June 2007, GEI collected two sub-slab soil vapor samples from beneath the building. PCE was detected in each of these samples. GEI collected indoor air samples from the basement and first floor of the building on October 5, 2007. PCE was detected in the basement and on the first floor, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP.

Based on the indoor air and soil vapor sampling results, a vapor intrusion exposure pathway was identified at 17 Knowlton Street, and an EPEM was recommended. Installation of an Option 3 EPEM was completed in April 2009. GEI will collect post-EPEM indoor air samples from the basement and first floor in the spring of 2009, and will collect additional confirmatory samples in summer 2009, and winter and summer 2010.

Once post-EPEM indoor air sampling results indicate that the EPEM has mitigated the vapor intrusion pathway, an AUL will be recorded at the Middlesex South District Registry of Deeds requiring the maintenance of the EPEM at 17 Knowlton Street to maintain a condition of NSR. GEI plans to prepare a Class A-3 Partial RAO for 17 Knowlton Street.

19 Knowlton Street - 19 Knowlton Street is a multi-family residence located approximately 350 feet southeast of the Property. In June 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE was detected in this sample. GEI collected indoor air samples from the basement and first floor of the building in July 2007, December 2007, February 2008, and August 2008. PCE was not detected above laboratory reporting limits in these samples.

Based on the results of the indoor air and soil vapor testing conducted at the property, there does not appear to be a complete vapor intrusion pathway. However, DEP has required that indoor air samples continue to be collected from "...buildings located substantially within the boundary of the shallow groundwater plume, where shallow groundwater concentrations of chlorinated VOCs are above their applicable Method 1 GW-2 Standard, but where indoor air testing has not identified a CEP in a residence or a Significant Risk in a commercial building. Samples will be collected in summer 2008, winter 2009, and winter 2010." GEI therefore will collect an additional winter indoor air sample in 2010 to continue to evaluate the vapor intrusion pathway.

23 Knowlton Street - 23 Knowlton Street is a multi-family residence located approximately 350 feet east of the Property. In February 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE was detected in this sample. GEI collected indoor air samples from the basement and first floor of the building in April 2007, November 2007, February 2008, June 2008, and January 2009. PCE was detected in February 2008 and January 2009 in the basement.

An EPEM was not recommended for 23 Knowlton Street because PCE was detected only in the basement, GEI did not classify this as a CEP, and exposure to concentrations measured in the basement constituted a condition of NSR for the occupants. However, DEP has recently stated that basements are considered occupied living space and therefore the detection of any level of PCE in the basement is a CEP. GEI is currently arranging to have an air purifier installed to mitigate the CEP. GEI is currently evaluating the feasibility of alternative

technologies to further mitigate the CEP. We will continue to monitor the indoor air of 23 Knowlton Street as we conduct this evaluation.

27 Knowlton Street - 27 Knowlton Street is a multi-family residence located approximately 400 feet east of the Property. In March 2007, GEI collected two sub-slab soil vapor samples from beneath the building. PCE was not detected above laboratory reporting limits in these samples. GEI collected indoor air samples from the basement and first floor of the building in May 2007 and March 2008. PCE was not detected above laboratory reporting limits in these samples.

Based on the results of the indoor air and soil vapor testing conducted at the property, there does not appear to be a complete vapor intrusion pathway. However, DEP has required that indoor air samples continue to be collected from "...buildings located substantially within the boundary of the shallow groundwater plume, where shallow groundwater concentrations of chlorinated VOCs are above their applicable Method 1 GW-2 Standard, but where indoor air testing has not identified a CEP in a residence or a Significant Risk in a commercial building. Samples will be collected in summer 2008, winter 2009, and winter 2010." GEI therefore will collect an additional winter indoor air sample in 2010 to continue to evaluate the vapor intrusion pathway.

29 Knowlton Street - 29 Knowlton Street is a multi-family residence located approximately 400 feet east of the Property. In March 2007, GEI collected two sub-slab soil vapor samples from beneath the building. PCE was detected in one sample. GEI collected indoor air samples from the basement and first floor of the building in June 2007 and February 2008. PCE was not detected above laboratory reporting limits in these samples.

Based on the results of the indoor air and soil vapor testing conducted at the property, there does not appear to be a complete vapor intrusion pathway. However, DEP has required that indoor air samples continue to be collected from "...buildings located substantially within the boundary of the shallow groundwater plume, where shallow groundwater concentrations of chlorinated VOCs are above their applicable Method 1 GW-2 Standard, but where indoor air testing has not identified a CEP in a residence or a Significant Risk in a commercial building. Samples will be collected in summer 2008, winter 2009, and winter 2010." GEI therefore will collect an additional winter indoor air sample in 2010 to continue to evaluate the vapor intrusion pathway.

31-33 Knowlton Street - 31-33 Knowlton Street is a multi-family residence located approximately 400 feet east of the Property. In March 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE was detected in this sample. GEI collected indoor air samples from the basement and first floor of the building in January and April 2007. In January 2007, PCE was detected in the basement. In April 2007, PCE was detected

in the basement and on the first floor, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP.

Based on the indoor air sampling results, a vapor intrusion exposure pathway was identified at 31-33 Knowlton Street, and an EPEM was recommended. Installation of an Option 1 EPEM was completed in July 2007. GEI collected post-EPEM indoor air samples from the basement and first floor of the building in August 2007, November 2007, February 2008, July 2008, and January 2009. PCE was detected in the basement and on the first floor in February 2008 after EPEM installation. The sub-slab vapor sumps were modified in June 2008 to prevent accumulation of stormwater in the sumps, which likely adversely affected sub-slab vacuum distribution. PCE has not been detected above laboratory reporting limits since the modifications to the SSDS were made. Based on the indoor air sampling results, the EPEM is effective. Following the installation of an Option 1 EPEM, DEP has required that indoor air samples be collected once per year for two years (in the winter).⁴ GEI will collect an additional confirmatory sample in winter 2010.

32 Knowlton Street - 32 Knowlton Street is a multi-family residence located approximately 325 feet northeast of the Property. In May 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE was not detected above laboratory reporting limits in this sample. GEI collected indoor air samples from the first floor and basement of the building in October 2008 and January 2009. PCE was detected in January 2009 in the basement and first floor, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP.

Based on the indoor air sampling results, a vapor intrusion exposure pathway was identified at 32 Knowlton Street, and an EPEM was recommended. Installation of an Option 3 EPEM began in March 2009. Upon completion of the EPEM, GEI will conduct confirmatory indoor air sampling in summer 2009, and winter and summer 2010.

34 Knowlton Street – 34 Knowlton Street is a commercial garage located approximately 350 feet northeast of the property. There is no living space in the building, and it is not classified as an occupied building.. Based on the current property use, the vapor intrusion exposure pathway was not evaluated, and an EPEM is not required.

35-37 Knowlton Street – 35-37 Knowlton Street is a multi-family residence located approximately 450 feet northeast of the Property. In March 2007, GEI collected two sub-slab soil vapor samples from beneath the building. PCE was detected in each of these samples. GEI collected one indoor air sample from the basement of the building in January 2007.

⁴ As required by DEP in the Conditional Approval of IRA Modification No. 12 (May 13, 2008).

PCE was detected in this sample, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP.

Based on the indoor air and soil vapor sampling results, a vapor intrusion exposure pathway was identified at 35-37 Knowlton Street, and an EPEM was recommended. Installation of an Option 3 EPEM was completed in December 2008. GEI collected post-EPEM indoor air samples from the basement and first floor on March 9, 2009. PCE was detected in the basement and on the first floor.

Based on the post-EPEM indoor air analytical results, the EPEM will be modified to extend the wall vapor barrier from grade up to the sill elevation. Additional post-EPEM indoor air sampling will be collected following the modification, and GEI will collect additional confirmatory samples in summer 2009, and winter and summer 2010.

4 Morton Street – 4 Morton Street is a multi-family residence located approximately 200 feet east of the Property. GEI collected one sub-slab soil vapor sample from beneath the building on June 27, 2007. PCE was detected in this sample. Based on this soil vapor result, an EPEM was recommended. GEI installed an air purifier to mitigate the potential vapor intrusion pathway.

Installation of an Option 3 EPEM was completed in January 2009. GEI collected post-EPEM indoor air samples from the first floor and basement in March 2009. PCE was detected in the basement.

Based on the post-EPEM indoor air analytical results, the EPEM will be modified to extend the wall vapor barrier from grade up to the sill elevation. Additional post-EPEM indoor air sampling will be collected following the modification, and GEI will collect additional confirmatory samples in summer 2009, and winter and summer 2010.

6-8 Morton Street – 6-8 Morton Street is a multi-family residence located approximately 150 feet east of the Property. In April 2007, GEI collected two sub-slab soil vapor samples from beneath the building. PCE was detected in each of these samples. GEI collected indoor air samples from the basement and first floor of the building in June 2007, November 2007, February 2008, and June 2008. PCE was detected in the basement in June 2007, November 2007, and June 2008.

An EPEM was not recommended for 6-8 Morton Street because PCE was detected only in the basement, GEI did not classify this as a CEP, and the exposure to concentrations measured in the basement constituted a condition of NSR for the occupants. However, DEP has recently stated that basements are considered occupied living space and therefore the detection of any level of PCE in the basement is a CEP. GEI is currently arranging to have

an air purifier installed to mitigate the CEP. GEI is currently evaluating the feasibility of alternative technologies to further mitigate the CEP. We will continue to monitor the indoor air of 6-8 Morton Street as we conduct this evaluation.

7 Morton Street - 7 Morton Street is a multi-family residence located approximately 275 feet east of the Property. In May 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE was detected in this sample. GEI collected indoor air samples from the basement and first floor of the building in June 2007, November 2007, February 2008, August 2008, and January 2009. PCE was not detected above laboratory reporting limits in these samples.

Based on the results of the indoor air and soil vapor testing conducted at the property, there does not appear to be a complete vapor intrusion pathway. However, DEP has required that indoor air samples continue to be collected from "...buildings located substantially within the boundary of the shallow groundwater plume, where shallow groundwater concentrations of chlorinated VOCs are above their applicable Method 1 GW-2 Standard, but where indoor air testing has not identified a CEP in a residence or a Significant Risk in a commercial building. Samples will be collected in summer 2008, winter 2009, and winter 2010." GEI therefore will collect an additional winter indoor air in 2010 sample to continue to evaluate the vapor intrusion pathway.

10 Morton Street - 10 Morton Street is a single family residence located approximately 150 feet east of the Property. In May 2009, GEI collected two sub-slab soil vapor samples from beneath the building. PCE was detected in one sample. GEI collected indoor air samples from the basement and first floor in August 2007, November 2007, and February 2008. PCE was detected in the basement in August 2007, and on the first floor and in the basement in February 2008, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP.

Based on the indoor air sampling results, a vapor intrusion exposure pathway was identified at 10 Morton Street, and an EPEM was recommended. Installation of an Option 3 EPEM was completed in March 2009. GEI collected post-EPEM indoor air samples from the basement and first floor in April 2009. PCE was not detected above laboratory limits in these samples. Indoor air testing indicates that the EPEM is effective. GEI will collect additional confirmatory samples in summer 2009, and winter and summer 2010.

Based on the post-EPEM indoor air sampling results to date, the EPEM has mitigated the vapor intrusion pathway. An AUL will be recorded at the Middlesex South District Registry of Deeds requiring the maintenance of the EPEM at 10 Morton Street to maintain a condition of NSR. GEI plans to prepare a Class A-3 Partial RAO for 10 Morton Street.

11 Morton Street - 11 Morton Street is a multi-family residence located approximately 300 feet east of the Property. In March 2007, GEI collected two sub-slab soil vapor samples from beneath the building. PCE was detected in each of these samples. GEI collected indoor air samples from the basement and first floor in June 2007. PCE was detected in the basement and on the first floor, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP.

Based on the indoor air and soil vapor sampling results, a vapor intrusion exposure pathway was identified at 11 Morton Street, and an EPEM was recommended. Installation of an Option 3 EPEM was completed in September 2008. GEI collected post-EPEM indoor air samples from the basement and first floor in October 2008 and January 2009. PCE was not detected above laboratory reporting limits in these samples. Indoor air testing to date indicates that the EPEM is effective. GEI will collect additional confirmatory samples in summer 2009 and winter 2010.

Based on the post-EPEM indoor air sampling results to date, the EPEM has mitigated the vapor intrusion pathway. An AUL will be recorded at the Middlesex South District Registry of Deeds requiring the maintenance of the EPEM at 11 Morton Street to maintain a condition of NSR. GEI plans to prepare a Class A-3 Partial RAO for 11 Morton Street.

12 Morton Street - 12 Morton Street is a multi-family residence located approximately 150 feet east of the Property. GEI collected one sub-slab soil vapor sample from beneath the building in May 2007. PCE was detected in this sample. Based on this soil vapor result, an EPEM was recommended. GEI installed an air purifier to mitigate the potential vapor intrusion pathway.

Installation of an Option 3 EPEM was completed in March 2008. GEI collected post-EPEM indoor air samples from the first floor and basement on March 5 and March 21, 2008 and in April 2009. PCE was not detected above laboratory reporting limits in these samples. Indoor air testing indicates that the EPEM is effective. GEI will collect additional confirmatory samples in summer 2009 and winter 2010.

Based on the post-EPEM indoor air sampling results to date, the EPEM has mitigated the vapor intrusion pathway. An AUL will be recorded at the Middlesex South District Registry of Deeds requiring the maintenance of the EPEM at 12 Morton Street to maintain a condition of NSR. GEI plans to prepare a Class A-3 Partial RAO for 12 Morton Street.

13 Morton Street - 13 Morton Street is a multi-family residence located approximately 300 feet east of the Property. There is an apartment in the basement. GEI collected one sub-slab soil vapor sample from beneath the building in June 2007. PCE was detected in this sample.

Based on this soil vapor result, an EPEM was recommended for the property. GEI installed an air purifier to mitigate the potential vapor intrusion pathway.

Installation of an Option 1 EPEM was completed in October 2008. GEI collected post-EPEM indoor air samples from the basement and first floor of the building in January 2009. PCE was not detected in these samples. Based on the indoor air sampling results, the EPEM is effective. Following the installation of an Option 1 EPEM, DEP has required indoor air samples be collected once per year for two years (in the winter). GEI will collect an additional confirmatory sample in winter 2010.

15-17 Morton Street – 15-17 Morton Street is a multi-family residence located approximately 300 feet east of the Property. In May 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE was not detected above laboratory reporting limits in this sample. GEI collected indoor air samples from the basement and first floor in February 2008 and December 2008. PCE was not detected above laboratory reporting limits in these samples.

Based on the results of the indoor air and soil vapor testing conducted at the property, there does not appear to be a complete vapor intrusion pathway. However, DEP has required that indoor air samples continue to be collected from "...buildings located substantially within the boundary of the shallow groundwater plume, where shallow groundwater concentrations of chlorinated VOCs are above their applicable Method 1 GW-2 Standard, but where indoor air testing has not identified a CEP in a residence or a Significant Risk in a commercial building. Samples will be collected in summer 2008, winter 2009, and winter 2010." GEI therefore will collect an additional winter indoor air sample in 2010 to continue to evaluate the vapor intrusion pathway.

18 Morton Street - 18 Morton Street is a multi-family residence located approximately 150 feet east of the Property. GEI collected two sub-slab soil vapor samples from beneath the building in March 2007. PCE was detected in each of these samples. Based on these soil vapor results, an EPEM was recommended. GEI installed an air purifier to mitigate the potential vapor intrusion pathway.

Installation of an Option 1 EPEM was completed in July 2007. GEI collected post-EPEM indoor air samples from the basement of the building in July 2007, November 2007, and February 2008, and from the basement and first floor in January 2009. PCE was detected in the basement in July 2007. PCE was not detected above laboratory reporting limits in the other post-EPEM samples. Based on the indoor air sampling results, the EPEM is effective.

19-19A Morton Street – 19-19A Morton Street is multi-family residence located approximately 300 feet east of the Property. In April 2007, GEI collected two sub-slab soil

vapor samples from beneath the building. PCE was detected in one sample. GEI collected indoor air samples from the basement and first floor of the building in July 2007, April 2008, August 2008, and January 2009. PCE was detected in the basement and on the first floor in January 2009, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP.

Based on the indoor air results, a vapor intrusion exposure pathway was identified and an EPEM was recommended. Installation of an Option 3 EPEM began in April 2009. Upon completion of the EPEM, GEI will conduct confirmatory indoor air sampling in summer 2009, and winter and summer 2010.

21 Morton Street - 21 Morton Street is a multi-family residence located approximately 300 feet east of the Property. In March 2007, GEI collected two sub-slab soil vapor samples from beneath the building. PCE was detected in each of these samples. GEI collected indoor air samples from the basement and first floor of the building in May 2007 and January 2009, and from the basement in September 2008. PCE was not detected above laboratory reporting limits in these samples.

Based on the results of the indoor air and soil vapor testing conducted at the property, GEI has concluded that there is not a complete vapor intrusion pathway at 21 Morton Street and additional indoor air testing is not required. GEI will prepare a Class B-1 Partial RAO for 21 Morton Street.

5 Palmer Avenue – 5 Palmer Avenue is a single family residence located approximately 750 feet east of the Property. No indoor air or soil vapor testing has been conducted at this property. Chlorinated VOCs were not detected above laboratory reporting limits in the shallow groundwater in the vicinity of 5 Palmer Avenue (MW119S). Soil vapor concentrations at MW119S did not indicate the need to further evaluate the vapor intrusion pathway. Based on these lines of evidence, GEI has concluded there is not a complete vapor intrusion pathway. GEI will prepare a Class B-1 Partial RAO for 5 Palmer Avenue.

9 Tufts Street – 9 Tufts Street is a multi-family residence located approximately 40 feet northeast of the Property. In February 2005, DEP collected indoor air samples from the basement and first floor of the building and screened them for the presence of VOCs. PCE was not detected. Also in February 2005, on behalf of DEP, Shaw collected indoor air samples from the basement and first floor of the building. PCE was detected on the first floor. GEI collected indoor air samples from the first floor and basement in March 2006, July 2006, October 2006, and December 2006. PCE was detected in most samples during these sampling events, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP. Sub-slab soil vapor samples were not collected from 9 Tufts Street.

Based on the indoor air sampling results, a vapor intrusion exposure pathway was identified at 9 Tufts Street, and an EPEM was recommended. However, exposure to concentrations of chlorinated VOCs in indoor air constitutes a condition of NSR. In addition, the owner has not agreed to the installation of an EPEM. GEI considers it infeasible to prevent or eliminate a CEP at 9 Tufts Street since the owner has declined the installation of an EPEM. If the owner agrees to an EPEM and grants access to the property, GEI will conduct soil communication testing to determine which EPEM option is appropriate.

11-13 Tufts Street – 11-13 Tufts Street is a multi-family residence located approximately 40 feet northeast of the Property. In February 2005, DEP collected indoor air samples from the basement and first floor of the building and screened them for the presence of VOCs. PCE was not detected. Also in February 2005, Shaw collected indoor air samples from the basement and first floor of the building. PCE was detected in the basement. GEI collected indoor air samples from the basement and first floor of the building in March 2006, June 2006, September 2006, and December 2006. PCE was detected in June 2006 in the basement and on the first floor, in September 2006 on the first floor, and in December 2006 in the basement, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP. Sub-slab soil vapor samples were not collected from 11-13 Tufts Street.

Based on the indoor air sampling results, a vapor intrusion exposure pathway was identified at 11-13 Tufts Street, and an EPEM was recommended. However, exposure to concentrations of chlorinated VOCs in indoor air constitutes a condition of NSR. In addition, the owner has not agreed to the installation of an EPEM. GEI considers it infeasible to prevent or eliminate a CEP at 11-13 Tufts Street since the owner has declined the installation of an EPEM. If the owner agrees to installation of an EPEM and grants access to the property, GEI will conduct soil communication testing to determine which EPEM option is appropriate.

17 Tufts Street – 17 Tufts Street is a multi-family residence located approximately 40 feet northeast of the Property. In March 2005, Shaw collected indoor air samples from the basement and first floor of the building. PCE was detected in the basement and on the first floor. GEI collected indoor air samples from the basement and first floor of the building in March 2006, October 2006, and December 2006. PCE was detected in the basement during each of the 2006 sampling events. PCE was detected on the first floor in December 2006, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP. Sub-slab soil vapor samples were not collected from 17 Tufts Street.

Based on the indoor air sampling results, a vapor intrusion exposure pathway was identified at 17 Tufts Street, and an EPEM was recommended. However, exposure to concentrations of chlorinated VOCs in indoor air constitutes a condition of NSR. In addition, the owner has not agreed to the installation of an EPEM. GEI considers it infeasible to prevent or eliminate a CEP at 17 Tufts Street since the owner has declined the installation of an EPEM. If the

owner agrees to installation of an EPEM and grants access to the property, GEI will conduct soil communication testing to determine which EPEM option is appropriate.

19 Tufts Street – 19 Tufts Street is a multi-family residence located approximately 40 feet northeast of the Property. In February 2005, DEP collected indoor air samples from the basement and first floor of the building for screening. PCE was detected in the basement. In March 2005, Shaw collected indoor air samples from the basement and first floor of the building. PCE was detected in the basement. GEI collected indoor air samples from the basement and first floor of the building in March 2006, June 2006, October 2006, and December 2006. PCE was detected in the basement during each 2006 sampling event. PCE was detected on the first floor in March 2006 and in June 2006, which is a CEP. The owner refused the installation of an air purifier. Sub-slab soil vapor samples were not collected from 19 Tufts Street.

Based on the indoor air sampling results, a vapor intrusion exposure pathway was identified at 19 Tufts Street, and an EPEM was recommended. However, exposure to concentrations of chlorinated VOCs in indoor air constitutes a condition of NSR. In addition,, the owner has not agreed to the installation of an EPEM. GEI considers it infeasible to prevent, mitigate or eliminate a CEP at 19 Tufts Street since the owners have refused the installation of an air purifier or an EPEM. If the owner agrees to installation of an EPEM and grants access to the property, GEI will conduct soil communication testing to determine which EPEM option is appropriate.

23 Tufts Street - 23 Tufts Street is a single family residence located approximately 40 feet northeast of the Property. In February 2005, Shaw collected indoor air samples from the basement and first floor of the building. PCE was detected in the basement and on the first floor. GEI collected indoor air samples from the basement and first floor of the building in March 2006, June 2006, August 2006, October 2006, and December 2006. With the exception of the first floor sample collected in March 2006, PCE was detected in each sample, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP. Sub-slab soil vapor samples were not collected from 23 Tufts Street.

Based on the indoor air sampling results, a vapor intrusion exposure pathway was identified at 23 Tufts Street, and an EPEM was recommended. Installation of an Option 1 EPEM was completed in May 2007. GEI collected post-EPEM indoor air samples from the basement and first floor of the building in May 2007, November 2007, February 2008, and January 2009. PCE was detected at the laboratory reporting limit in the basement in January 2009 in one duplicate sample, and below the reporting limit in the other duplicate basement sample. PCE was not detected above laboratory reporting limits in the other post-EPEM samples. In light of the sampling results, GEI conducted a performance evaluation of the SSDS and confirmed that it was operating properly and was providing adequate sub-slab vacuum

coverage. GEI will conduct additional confirmatory indoor air sampling at 23 Tufts Street in the winter of 2010.

25 Tufts Street - 25 Tufts Street is a multi-family residence located approximately 40 feet northeast of the Property. In February 2005, DEP collected indoor air samples from the basement and first floor of the building and screened them for the presence of VOCs. PCE was not detected. Also in February 2005, on behalf of DEP, Shaw collected indoor air samples from the basement and first floor of the building. PCE was detected in the basement. GEI collected indoor air samples from the basement and first floor of the building in March 2006, August 2006, October 2006, and December 2006. With the exception of the first floor sample collected in October 2006, PCE was detected in each sample, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP. A tenant removed the air purifier when they moved out and the owner has refused a replacement purifier. Sub-slab soil vapor samples were not collected from 25 Tufts Street.

Based on the indoor air sampling results, a vapor intrusion exposure pathway was identified at 25 Tufts Street, and an EPEM was recommended. However, exposure to concentrations of chlorinated VOCs in indoor air constitutes a condition of NSR. In addition, the owner has not agreed to the installation of an EPEM. GEI considers it infeasible to prevent or eliminate a CEP at 25 Tufts Street since the owner has declined the installation of an EPEM.

27 Tufts Street – 27 Tufts Street is a multi-family residence located approximately 40 feet northeast of the Property. In February 2005, DEP collected indoor air samples from the basement and first floor of the building and screened them for the presence of VOCs. PCE was not detected. Also in February 2005, Shaw collected indoor air samples from the basement and first floor of the building. PCE was not detected above laboratory reporting limits. GEI collected two sub-slab soil vapor samples from beneath the building in March 2007. PCE was detected in each sample. GEI collected indoor air samples from the basement and first floor of the building in March and June 2006. In March, PCE was not detected above laboratory reporting limits. In June, PCE was detected in the basement and on the first floor. Indoor air sampling conducted in August, September, and December 2006 at 27 Tufts Street also detected PCE in the basement and on the first floor, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP.

Based on the indoor air sampling results, a vapor intrusion pathway was identified at 27 Tufts Street, and an EPEM was recommended. Installation of an Option 3 EPEM was completed in September 2008. GEI collected post-EPEM indoor air samples from the basement and first floor of the building in September 2008 and February 2009. PCE was detected in the basement and on the first floor in February 2009.

In light of the sampling results, GEI conducted a performance evaluation of the EPEM. GEI determined that an inaccessible crawl space beneath a portion of the residence may have been functioning as a preferred migration pathway for sub-slab soil vapor. GEI therefore modified the EPEM by installing an access panel to, and a vapor barrier in, the crawl space.

In February and March 2009, following the EPEM modification, GEI collected additional post-EPEM indoor air samples. PCE was not detected above laboratory reporting limits in these samples. Indoor air testing indicates that the EPEM is effective. GEI will collect additional confirmatory indoor air sampling in summer 2009, and summer and winter 2010.

Based on the post-EPEM indoor air sampling results to date, the EPEM has mitigated the vapor intrusion pathway. An AUL will be recorded at the Middlesex South District Registry of Deeds requiring the maintenance of the EPEM at 27 Tufts Street to maintain a condition of NSR. GEI plans to prepare a Class A-3 Partial RAO for 27 Tufts Street.

45-47 Tufts Street – 45-47 Tufts Street is a multi-family residence located approximately 40 feet northeast of the Property. GEI collected indoor air samples from the basement and first floor of Unit #1 (a first floor unit) in July 2008 and December 2008, and collected samples from Unit #4 (a first floor unit) in October 2008 and January 2009. PCE was not detected above laboratory reporting limits in these samples. Sub-slab soil vapor samples were not collected from 45-47 Tufts Street.

GEI will collect additional indoor air samples from the first floor and basement in the spring of 2009.

49 Tufts Street - 49 Tufts Street is a single family residence located approximately 40 feet northeast of the Property. In June 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE was detected in this sample. GEI collected indoor air samples from the basement and first floor of the building in September 2007 and February 2009. PCE was detected in September 2007 in the basement and on the first floor, which is a CEP. GEI installed an air purifier as an initial measure to mitigate the CEP.

GEI is currently evaluating the feasibility of alternative technologies to further mitigate the CEP since exposure to the concentration of PCE in indoor air constitutes a condition of NSR. We will continue to monitor the indoor air at 49 Tufts Street as we conduct this evaluation.

51-51a Tufts Street – 51-51a Tufts Street is a multi-family residence located approximately 75 feet northeast of the Property. GEI collected indoor air samples from the basement and first floor unit of the building in July 2008 and December 2008. PCE was not detected above laboratory reporting limits in these samples. Sub-slab soil vapor samples were not collected from 51-51a Tufts Street.

GEI will collect additional indoor air samples from the first floor and basement in the spring of 2009.

53 Tufts Street – 53 Tufts Street is a multi-family residence located approximately 75 feet northeast of the Property. In May 2007, GEI collected two sub-slab soil vapor samples from beneath the building. PCE was detected in one sample. GEI collected indoor air samples from the basement of the building in November 2007, February 2008, and June 2008. PCE was not detected above laboratory reporting limits in these samples.

Based on the results of the indoor air and soil vapor testing conducted at the property, GEI has concluded that there is not a complete vapor intrusion pathway at 53 Tufts Street and additional indoor air testing is not required. GEI will prepare a Class B-1 Partial RAO for 53 Tufts Street.

60 Tufts Street – 60 Tufts Street abuts the property to the northwest, and is a 17 unit condominium building and parking garage. GEI collected indoor air samples from the first floor and basement of Unit 4 in January 2007 and February 2008, from Unit 10 (a second floor unit) in March 2008, and from Unit 5 (a second floor unit) in March 2009. PCE was detected in Unit 4 on the first floor and in the basement in January 2007, and on the first floor and in the basement in February 2008. PCE also was detected in Unit 10. PCE was not detected above laboratory reporting limits in Unit 5.

GEI collected multiple sub-slab soil vapor samples from beneath several sections of the 60 Tufts Street building between April 2007 and January 2008. PCE was detected in each sample.

Based on the indoor air and soil vapor sampling results, a vapor intrusion pathway was identified at 60 Tufts Street, and an EPDM was recommended. There are currently air purifiers operating at this property in Unit 4 and Unit 10 to mitigate the CEP.

In January 2008, GEI conducted a soil vapor extraction pilot test and soil communication test in the basement of the building at 60 Tufts Street. The objective of the test was to evaluate the potential effectiveness of an SSDS at 60 Tufts Street and design the appropriate number and spacing of sub-slab extraction points. Details of the sub-slab investigation were provided in IRA Status Report No. 5. The work plan for the installation of the SSDS was included in IRA Status Report No. 6.

In May and June 2008, GEI investigated an unexcavated area underlying Units 3 and 4 to determine if a crawl space exists. GEI coordinated the installation of observation holes

through the foundation and, based on the level of fill observed through the holes, concluded that there did not appear to be a crawl space below Units 3 and 4.

Based on the results of pilot testing and the crawl space investigation, GEI recommended soil vapor extraction points through the foundation slab that are connected to vertical extraction pipes and subsequently plumbed to a regenerative blower outside the building envelope. The SSDS layout, as shown in Fig 3-4, depicts the blower enclosure located in the lower parking garage area at the southwest corner of the building. The mechanical equipment is enclosed in a locked enclosure and includes a 5-hp blower with gauges and controls, an alarm notification system, a vacuum relief valve, and particulate filters. The exhaust vent pipe extends through the parking garage deck and discharges above the eave-line at the southwest building corner.

The regulatory requirements for off-gas treatment for remedial air emissions are in DEP's Policy No. WSC-94-150, "Off-Gas Treatment of Point-Source Remedial Air Emissions." Off-gas contaminant treatment is not required for SSDSs that produce a total air emission rate of volatile contaminants of less than 100 pounds per year (lbs/yr).

On January 21, 2008, six sub-slab soil vapor samples were collected in summa canisters from various locations throughout the 60 Tufts Street basement. The samples were submitted for laboratory analysis by method TO-15 and the chemical testing results are summarized in IRA Status Report 5 and RMR No. 8, dated May 12, 2008. The average concentration of VOCs in the sub-slab soil vapor was 1.72 milligrams per cubic meter (mg/m³), or 446 ppbV. We assume this value would represent the average influent concentration of the SSDS when all extraction points are operating. Based on the estimated system flow rate of 300 cubic feet per minute (cfm), and the average sub-slab soil vapor concentration of 1.72 mg/m³, the estimated sub-slab extraction rate for VOCs is approximately 0.0464 pounds per day (lbs/day) or 16.9 lbs/yr. Based on this estimated annual emission rate, off-gas contaminant treatment is not required by DEP Policy No. WSC-94-150.

In February 2009, GEI began installation of the SSDS system at 60 Tufts Street. The SSDS will be completed and begin operating in April 2009. Upon completion of the EPEM, GEI will conduct confirmatory indoor air sampling and sub-slab vacuum measurements. GEI will monitor sub-slab vacuum weekly for the first month, monthly for the first six months, and annually thereafter. The SSDS has an automated alarm system to notify GEI of system shutdown.

79 Washington Street – 79 Washington Street is a single family residence located approximately 850 feet east of the Property. No indoor air or soil vapor samples have been collected from 79 Washington Street. Chlorinated VOCs were not detected above laboratory reporting limits in the shallow groundwater in the vicinity of 79 Washington Street (MW121S). Soil vapor concentrations at MW121S did not indicate the need to further

evaluate the vapor intrusion pathway. Based on these lines of evidence, GEI has concluded there is not a complete vapor intrusion pathway. GEI will prepare a Class B-1 Partial RAO for 79 Washington Street.

81-83 Washington Street – 81-83 Washington Street is a multi-family residence located approximately 800 feet east of the Property. No indoor air or soil vapor samples have been collected from 81-83 Washington Street. Chlorinated VOCs were not detected above laboratory reporting limits in the shallow groundwater in the vicinity of 81-83 Washington Street (MW121S). Soil vapor concentrations at MW121S did not indicate the need to further evaluate the vapor intrusion pathway. Based on these lines of evidence, GEI has concluded there is not a complete vapor intrusion pathway. GEI will prepare a Class B-1 Partial RAO for 81-83 Washington Street.

85 Washington Street – 85 Washington Street is a commercial building located approximately 700 feet east of the Property. A church, parking garage and auditorium are located in the building. In March 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE was not detected above laboratory reporting limits. GEI collected indoor air samples from the parking garage and auditorium in November 2007, February 2008, August 2008, and February 2009. PCE was not detected above laboratory reporting limits in these samples.

Based on the results of the indoor air and soil vapor testing conducted at the property, GEI has concluded that there is not a complete vapor intrusion pathway at 85 Washington Street and additional indoor air testing is not required. GEI will prepare a Class B-1 Partial RAO for 85 Washington Street.

91 Washington Street - 91 Washington Street is a commercial building located approximately 700 feet east of the Property. GEI has not been able to obtain access to the property to conduct indoor air or soil vapor testing.

97 Washington Street - 97 Washington Street is a commercial building located approximately 600 feet east of the Property. In April 2007, GEI collected two sub-slab soil vapor samples from beneath the building. PCE was detected in one sample. GEI collected indoor air samples from the basement and first floor of the building in June 2007, November 2007, February 2008 and June 2008. PCE was detected in the basement and on the first floor in November 2007. PCE was detected in the basement and on the first floor in June 2008.

Based on the results of the indoor air testing conducted at the property, GEI has concluded that the vapor intrusion exposure pathway is complete at 97 Washington Street. However, exposure to the concentrations of chlorinated VOCs in indoor air at the property constituted a condition of NSR to current and future receptors. Based on the current property use

(commercial), a CEP does not exist at the property. GEI will prepare a Class B-1 Partial RAO for 97 Washington Street.

103 Washington Street - 103 Washington Street is a commercial building located approximately 400 feet east of the Property. It is an auto repair shop. GEI collected one sub-slab soil vapor sample from beneath the building on May 8, 2007. PCE was detected in this sample. Based on this result, an EPEM was recommended. Installation of an Option 1 EPEM was completed in August 2007. GEI did not collect post-EPEM indoor air samples due to the nature of the business and the potential for the measurement of chlorinated VOCs in indoor air that are attributable to the operating business and not the disposal Site.

105-107 Washington Street – 105-107 Washington Street is a multi-family residence located approximately 350 feet east of the Property. In May 2007, GEI collected two sub-slab soil vapor samples from beneath the building. PCE was detected in each of these samples. GEI installed an air purifier to mitigate the potential vapor intrusion pathway.

Based on the soil vapor concentrations, GEI recommended an EPEM; however, the owners have not agreed to the installation. Since the recommendation was made without indoor air testing, GEI collected indoor air samples from the basement and first floor in February 2009 to confirm a complete vapor intrusion pathway. PCE was detected in the basement sample. GEI is currently evaluating the feasibility of alternative technologies to further mitigate the CEP. We will continue to monitor the indoor air 105-107 Washington Street as we conduct this evaluation.

111 Washington Street - 111 Washington Street is a multi-family residence located approximately 325 feet east of the Property. GEI collected one sub-slab soil vapor sample from beneath the building in June 2007. PCE was detected in this sample. GEI installed an air purifier to mitigate a potential vapor intrusion pathway.

Based on this soil vapor concentration, GEI recommended an EPEM; however, the owner has not agreed to the installation. Since the recommendation was made without indoor air testing, GEI attempted to collect indoor air samples from the basement and first floor in February 2009 to confirm a complete vapor intrusion pathway. The property owner has refused to permit indoor air sampling to date.

113 Washington Street - 113 Washington Street is a commercial building located approximately 300 feet east of the Property. GEI has not been able to obtain access to the property to conduct indoor air or soil vapor testing.

117 Washington Street - 117 Washington Street is a commercial building located approximately 200 feet east of the Property. GEI has not been able to obtain access to the property to conduct indoor air or soil vapor testing.

121 Washington Street - 121 Washington Street is a commercial building located approximately 150 feet east of the Property. In April 2007, GEI collected one sub-slab soil vapor sample from beneath the building. PCE was detected in this sample. GEI collected indoor air samples from the building in November 2007, February 2008, and June 2008. PCE was detected in November 2007 and June 2008.

Based on the results of the indoor air testing conducted at the property, GEI has concluded that the vapor intrusion exposure pathway is complete at 121 Washington Street. However, exposure to the concentrations of chlorinated VOCs in indoor air at the property constitutes a condition of NSR to current and future receptors. Based on the current property use (commercial), a CEP does not exist at the property. GEI will prepare a Class B-1 Partial RAO for 121 Washington Street.

137 Washington Street – 137 Washington Street is a commercial building located approximately 100 feet west of the Property, across the MBTA railroad tracks. No indoor air or soil vapor samples have been collected from 137 Washington Street. Chlorinated VOCs were not detected above laboratory reporting limits in the shallow groundwater in the vicinity of 137 Washington Street (MW115R). Soil vapor concentrations at MW115R did not indicate the need to further evaluate the vapor intrusion pathway. Based on these lines of evidence, GEI has concluded there is not a complete vapor intrusion pathway. GEI will prepare a Class B-1 Partial RAO for 137 Washington Street.

3.8 Remediation Waste Management

Remediation waste was generated during the installation of the SSDS at 60 Tufts Street. Two drums of PCE-contaminated soil were generated. The soil remains on-site and will be disposed of during the next reporting period. No other remediation waste was generated during IRA activities conducted at residential and commercial properties during this reporting period. Disposal documentation for remediation waste generated during IRA activities conducted at residential and commercial properties prior to this reporting period was provided in previous IRA Status Reports.

Concrete and some associated soil generated during EPEM installations were disposed of as construction debris after chemical testing results confirmed that chlorinated VOCs were not detected in the samples. Disposal documentation for construction debris generated during this reporting period is in Appendix I.

4. 50 Tufts Street

4.1 Introduction

From approximately 1955 to approximately 2002, the Property was used for storage and distribution of industrial chemicals, laundry supplies, and dry cleaning supplies. Chemicals stored at and delivered to and from the Property included chlorinated solvents. These chlorinated VOCs – particularly PCE, TCE, and TCA – have been detected in soil, soil vapor, indoor air, and groundwater on the Property. Sub-slab soil vapor testing and indoor air testing has identified a complete vapor intrusion pathways at the Property building.

To mitigate the vapor intrusion pathway in the building at the Property, GEI installed an SSDS, which began operating in April 2007. Based on indoor air testing results collected since the SSDS has been operating, a condition of no Imminent Hazard and a condition of NSR for full-time commercial workers has been achieved for the Property building. The building at the Property is currently occupied by John's Auto Sales, a used car dealership. GEI also installed a soil vapor extraction system (SVE) at the Property to remove chlorinated VOCs from the soil above the groundwater table. The SVE system began operating in August 2007.

Additional details for the operation of the SSDS/SVE system will be presented in the Operation and Maintenance Manual included in the Phase IV Remedial Implementation Plan..

4.2 SSDS and SVE Operation and Monitoring

4.2.1 SSDS

Following startup, GEI monitored the SSDS in accordance with the Environmental Monitoring Plan (EMP) presented in IRA Plan Modification No. 5. System monitoring data collected during this reporting period were recorded on Field Monitoring Forms, included in Appendix J.

From October 1, 2008 to April 10, 2008, monitoring was conducted approximately weekly and generally included monitoring of:

- Air pressure and total VOC concentration in each collection header; and
- Air pressure and total VOC concentration in the combined influent and the discharge from the off-gas treatment system, and also between the lead, secondary, and polish carbon units.

Sub-slab extraction points and monitoring points inside the building were monitored on January 27 and March 9, 2009. A summary of the monitoring results for the SSDS system from startup through April 10, 2009 is presented in Table 4-1.

Monitoring data collected for the SSDS show vacuum influence in the sub-slab monitoring points inside the building, which indicates that the system is capturing soil vapor beneath the slab, preventing its migration into indoor air. The locations of extraction points, monitoring points, and overhead piping are shown in Fig. 4-1.

4.2.2 SVE System

Following startup, GEI monitored the SVE system in accordance with the EMP presented in IRA Plan Modification No. 8, dated October 11, 2007. System monitoring data collected during this reporting period were recorded on Field Monitoring Forms provided in Appendix J.

From October 1, 2008 to April 10, 2009, monitoring was conducted approximately weekly and generally included:

- Air pressure and total VOC concentration in each collection header.
- Air pressure and total VOC concentration in the combined influent and the discharge from the off-gas treatment system, and also between the lead, secondary, and polish carbon units.

Monitoring points are shown in Figs. 4-2a and 4-2b. A summary of the monitoring results for the SVE system from startup through April 10, 2009 is presented in Table 4-2. Pressure was measured with a Dwyer digital manometer, and VOC concentrations were measured using a PID calibrated to 100 ppm isobutylene. Monitoring results indicate a decrease in total influent VOC concentrations.

4.2.3 Off-Gas Treatment and VOC Source Mass Removal

Soil vapor from the SVE headers combines with the flow from the SSDS headers and is treated with three 1,500 to 2,000-lb vapor-phase activated carbon adsorbers operated in series (including a lead adsorber, secondary adsorber, and polish adsorber). Prior to July 25, 2008, two carbon absorbers had operated in series, and the third inactive adsorber functioned only as a standby unit. The locations of the blower system and carbon adsorbers are shown in Fig. 4-1.

Under the current configuration, a carbon change-out is scheduled when VOC measurements indicate significant breakthrough of the lead adsorber and a moderate breakthrough of the secondary adsorber. Carbon change-outs of approximately 1200 to 4000 lbs occurred on November 6, 2008, December 30, 2008, and April 10, 2009. The change-outs included

transferring the carbon from the spent lead adsorber to 55-gallon drums and refilling the adsorber with approximately 1,500 lbs of virgin 4 millimeter pelletized activated carbon. The adsorber with new carbon was then brought back online as the polish tank. The drums of spent carbon were shipped off-site under a hazardous waste manifest.

No samples of the system influent or effluent were taken during this reporting period. The results of system influent samples collected during the previous reporting periods were compared with PID field measurements and were used to estimate the total mass of VOCs removed by the system since April 30, 2007 (see Section 7.5 below for additional detail). As of March 17, 2009, the total volume of VOCs removed was approximately 402 gallons.

4.2.4 Remote Monitoring

The SSDS/SVE system is equipped with a low flow switch and an auto-dialer that will notify GEI staff of any interruption in system operation. The flow switch is installed in the combined influent manifold pipe and the auto dialer is located in a weatherproof fiberglass enclosure mounted on the exterior building wall next to the blower. The auto dialer is tested periodically to ensure it is working properly.

4.3 Indoor and Outdoor Air Sampling

GEI collected indoor and outdoor air samples at the Property on March 9, 2009. Data collected during the sampling event were recorded on Air Sampling Checklists included in Appendix J. Photos taken of the sample locations are also provided in Appendix J. The samples were submitted to Accutest for laboratory analysis using EPA Method TO-15. The laboratory reported the site-specific list of compounds (Section 2.3.1). Cumulative chemical testing results are summarized in Table 4-3 and Fig. 4-3. Meteorological data are summarized in Table 4-4. The laboratory data reports and summa canister certifications are in Appendix K.

4.4 Remediation Waste Management

Remediation waste generated at the Property between October 1, 2008 and April 10, 2009 included 10,159 lbs of spent granular and pelletized activated carbon from the carbon adsorbers. Seventeen 55-gallon drums of spent carbon were generated during a change-out of adsorbers A and C on November 6, 2008; 8 drums of spent carbon were generated during a change-out of adsorber B on December 30, 2008; and 6 drums of spent carbon were generated during a change-out of adsorber C on April 2, 2009. The spent carbon was transported off-Site by New England Disposal Technologies, Inc. (NEDT) of Shrewsbury, Massachusetts under a hazardous waste manifest. The spent carbon was delivered to Rineco of Benton, Arkansas for use by cement kilns as a waste-derived fuel. Disposal documentation is in Appendix I.

5. Subsurface Investigations

The majority of subsurface investigations were conducted with DEP approval as IRA activities; however, the installation of several monitoring wells, and some shallow soil sampling were conducted specifically as Phase II activities, and are described in the Phase II/III Report dated July 16, 2008.

GEI did not install any additional groundwater monitoring wells or soil borings during this reporting period. Boring and monitoring well construction logs were provided in previous IRA status reports or the Phase II/III report. Boring and monitoring well locations are in Fig. 5-1. Soil boring and monitoring well construction information is summarized in Table 5-1.

During this reporting period, GEI conducted groundwater level measurements and collected groundwater samples.

5.1 Groundwater Level Measurements

Since March 2008, Site-wide groundwater gauging has been included in the quarterly groundwater sampling activities. GEI measured Site-wide groundwater levels in October 2008 and January 2009. Details of gauging events are summarized in Table 5-2. Groundwater level measurements are in Table 5-3.

5.2 Groundwater Sampling

GEI conducted quarterly Site-wide groundwater sampling in October 2008 and January 2009. A summary of groundwater sampling activities, including dates of sampling, is in Table 5-2.

Groundwater testing results are summarized in Table 5-4, along with groundwater data from previous investigations. A summary of groundwater testing data is displayed in Fig. 5-2, 5-3 and 5-4. The laboratory data reports associated with the October 2008 and January 2009 groundwater testing are in Appendix L.

5.3 Underground Utility Evaluation

In March and April 2008, GEI conducted an investigation to evaluate underground utilities as potential contaminant migration pathways and exposure points. GEI sampled storm drains and wastewater pipes in the vicinity of the Site. Sample locations and results are shown in Fig. 5-5. Upon receipt of chemical testing results for stormwater and wastewater samples, DEP directed UniFirst to investigate potential infiltration into storm water catch basins located on Washington Street. DEP established an interim deadline of October 23, 2008 for UniFirst to complete a field study and submit a report describing the findings of the study to

DEP. GEI obtained access from the MBTA, the Boston Water and Sewer Commission (BWSC), and Bunker Hill Community College (BHCC) to collect samples from manholes on their properties.

GEI collected dry weather and wet weather water samples from the MBTA storm drain in October and November 2008, respectively. Sample locations and chemical testing results for these activities are shown in Fig. 5-6.

During sampling activities in spring and fall 2008, GEI photographed sewer structures, recorded observations of utility construction and condition, and measured water levels and the depth to the bottom of the sewer structure at each sample location. In fall 2008, GEI measured flow in the storm drain at selected locations. Where sufficient water was present, a water sample was collected and submitted for chemical testing for the site-specific list of chlorinated VOCs (Table 5-5) by EPA Method 8260. A summary of utility investigations and sampling activities during this reporting period is in Table 5-6. A summary of chemical testing results for the utility samples is in Table 5-7. Laboratory data reports are in Appendix M.

Based on the results of the storm drain evaluation, GEI concluded that the potential exists for detectable concentrations of chlorinated VOCs associated with the Site to have migrated in the MBTA storm drain to the Millers River, which represents a potential condition of Substantial Release Migration (SRM). In accordance with the MCP (310 CMR 40.0412(2)), a potential or identified condition of SRM requires an IRA. GEI notified UniFirst of the potential SRM on December 18, 2008 and notified DEP of the reportable condition on December 19, 2008. DEP assigned Release Tracking Number 3-28231 to the IRA condition. Additional assessment activities are being conducted under RTN 3-28231. An IRA Plan for RTN 3-28231 was submitted to DEP on February 16, 2009 and an IRA Status Report was submitted on April 20, 2010. No additional utility sampling activities will be conducted under RTN 3-23246.

5.4 Remediation Waste Management

No remediation waste was generated during IRA activities related to subsurface investigations during this reporting period.

6. Description of Ongoing Activities

6.1 Capuano Center

6.1.1 SSDS Operations Monitoring

During the next reporting period, GEI and Capuano Center maintenance staff will continue to monitor the operation of the SSDS on a monthly basis, and will conduct tri-annual indoor air sampling in August, November, and February/March.

6.1.2 Permanent System Modifications

Additions to the SSDS system at the Capuano Center are being considered to help improve the efficiency of long-term operation and monitoring activities, including the addition of condensation drainage ports in the subsurface piping headers and the installation of permanent manometers on header pipes inside the blower enclosure.

6.2 Residential and Commercial Properties

6.2.1 Ongoing Response Actions

GEI will continue to:

- Collect indoor air samples to complete three sampling rounds in one year in the buildings within the Site where prior sub-slab soil vapor sampling and/or indoor air testing results have indicated that the vapor intrusion pathway does not constitute a condition of significant risk at commercial buildings or does not represent a CEP at residences.
- Evaluate properties where a vapor intrusion pathway may be complete based on: Method 1 GW-2 exceedances in underlying groundwater; the detection of PCE in soil vapor beneath a building's slab at a concentration greater than 10 micrograms per liter; or detection of chlorinated VOCs in indoor air above the laboratory reporting limit based on indoor air testing conducted in November/December, February/March, and July/August.
- Monitor SSDS systems that have been installed in residential and commercial buildings once per year for two years to confirm the system is running as intended. Monitoring will include measuring VOCs at sub-slab vapor points, collecting pressure measurements using a manometer, and collecting indoor air samples.

- Monitor Option 2 and 3 EPEMs that have been installed in residential buildings once per year for two years to confirm the effectiveness of the system. Monitoring will include collecting indoor air samples.
- Conduct periodic gauging and sampling of selected groundwater monitoring wells.

6.2.2 EPEM Installation

The EPEMs currently being installed at residential properties are scheduled to be completed during the next reporting period for the Site.

As appropriate, GEI will install EPEMs at residences and buildings where such measures have been recommended (seven property owners have refused EPEMs). GEI will continue to monitor the buildings where EPEMs have been installed.

GEI will continue to reach out to property owners where EPEMs have been recommended, but we have not yet obtained access. Once an access agreement is signed by the property owner, GEI will take the necessary steps to install the EPEM. As previously discussed with DEP, GEI will not continue this outreach to property owners who have definitively refused installation of an EPEM.

6.3 50 Tufts Street

6.3.1 Indoor Air Testing

GEI will conduct indoor air sampling at up to six locations during the winter months on an annual basis for the duration of the SSDS and SVE system operation, and then will reevaluate the monitoring program. Air samples will be collected using summa canisters and will be submitted for laboratory analysis by EPA Method TO-15 and reporting of the site-specific list of compounds (Section 2.3.1).

6.3.2 Operations Monitoring Plans

GEI will continue to monitor the operations of the SSDS and SVE system. The SSDS and SVE system use the same mechanical equipment and off-gas treatment. The monitoring program consists of monthly monitoring, at a minimum, to confirm that system parameters such as flow rate, vacuum, and off-gas concentrations remain consistent, and to monitor for potential breakthrough of the carbon units.

The monitoring program currently includes measuring:

- Total VOC concentrations and vacuum pressure at each of the active SVE system extraction points and from the influent and effluent of the off-gas treatment system using a PID and manometer, respectively;

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- Total VOC concentrations in the influent and effluent from the carbon treatment system and between carbon canisters using a PID;
- System parameters such as flow rate, vacuum, and carbon usage rates; and
- Soil vapor pressure at selected soil vapor monitoring points using a manometer with a resolution of 0.001-inch water.

7. Remedial Monitoring Report No. 10

This RMR addresses Active Remedial Systems operated during this reporting period, including the SSDS installed in January 2007 at the Capuano Center and the SSDS and SVE system on the Property that began operating on April 30, 2007 and August 22, 2007, respectively. Because the SSDS and SVE at 50 Tufts Street are operated as one integrated system, using the same mechanical equipment and off-gas treatment, operating data for the two systems are reported jointly.

An SSDS was installed at one residential property between October 2008 and March 2009.

In November 2007, Irene Dale of DEP informed GEI that monthly RMRs for Active Remedial Systems associated with the Site were no longer required and that going forward RMRs should be submitted with IRA Status Reports for the Site.

This RMR provides information for the reporting period from October 1, 2008 to April 10, 2009 and was prepared to meet the requirements of 310 CMR 40.0425(6). IRA Transmittal Forms BWSC-105, BWSC-105A, and BWSC-105B for RTN 3-23246 were submitted through eDEP (Transaction No. 240616) on May 11, 2009. Copies of the transmittal forms and transmittal receipts are in Appendix A.

7.1 Operating Status of Active Remedial System [310 CMR 40.0027(2)(a)]

7.1.1 *Capuano Center*

The Capuano Center SSDS was designed by GEI and installed by the T Ford Company of Georgetown, Massachusetts in January 2007. The system consists of underground pipes connected to a blower to draw vapors from beneath the building and discharge them through an exhaust pipe above the roof. Slotted pipes were installed beneath six classrooms along the southern side of the Capuano Center (Classrooms 122, 126, 134, 138, 142, and 146). The blower is located in a small enclosure on the southern side of the instruction wing. Six sub-slab soil gas monitoring points were installed inside the bathrooms of Classrooms 122, 126, 133, 137, 142 and 146.

On March 19, 2009, GEI personnel received an alarm call from the autodialer monitoring the SSDS. GEI arrived onsite shortly afterward to find the blower enclosure secure, but the system turned off. Capuano Center staff members let GEI know there had been a power outage earlier in the afternoon. The system was restarted and there were no further issues. Total down time was approximately one hour. Besides this incident, the Capuano Center SSDS operated without significant interruption during the reporting period.

7.1.2 Residences and Commercial Buildings

The residential/commercial SSDSs were designed by GEI and installed by Storch Radon Services of Fall River, Massachusetts and Norfolk Services, Inc. of Bridgewater, Massachusetts. Installation and monitoring details for SSDSs installed prior to October 2008 can be found in IRA Status Reports 4 through 6, and Remedial Monitoring Reports 6 through 9. One SSDS was installed during this reporting period at 13 Morton Street by Eagle Environmental Inc. of Boylston, Massachusetts and Trident Environmental Group of Marlboro, Massachusetts. The SSDSs consist of pipes connected to a blower to draw vapors from beneath the building and discharge them through an exhaust pipe above the roof line. The residential/commercial systems' blowers are located on the exterior of the buildings to prevent draft effects.

SSDSs installed at 23 Tufts Street, 31-33 Knowlton Street, 95 Franklin Street, 18 Morton Street, 13 Morton Street, and 103 Washington Street have operated without significant interruption during this reporting period.

7.1.3 50 Tufts Street

Section 4.2 describes the operation and monitoring associated with the two Active Remedial Systems at the Property (SSDS and SVE). Both systems have been operating 24 hours per day with brief shut downs of several hours during the three carbon change-outs conducted during the reporting period.

7.2 Date and Number of Monitoring Events [310 CMR 40.0027(2)(b)]

7.2.1 Capuano Center

7.2.1.1 Operations Monitoring

During the reporting period, GEI conducted 6 monitoring events at the Capuano Center. The dates and types of monitoring events for the Capuano Center are in Table 7-1. System inspection logs for the Capuano Center during this reporting period are included in Appendix D. Total VOC concentrations measured at the Capuano Center are summarized in Tables 7-2 and 7-3. Graphs of those data are presented in Appendix W.

7.2.1.2 Indoor Air Monitoring

Please refer to Section 2.3 for information about indoor air monitoring at the Capuano Center during this reporting period.

7.2.2 Residences and Commercial Buildings

7.2.2.1 Indoor Air and SSDS Monitoring

An SSDS was installed at 13 Morton Street in October 2008. Post-installation confirmatory indoor air monitoring results indicated that chlorinated VOCs were not detected above laboratory reporting limits in samples collected in the basement and on the first floor (Table 3-50c).

Annual SSDS indoor air monitoring was conducted at 18 Morton Street, 31-33 Knowlton Street, and 23 Tufts Street during this reporting period. Results from 18 Morton Street and 31-33 Knowlton Street indicated that VOCs were not detected above the laboratory reporting limit in samples collected in the basement and on the first floor (Tables 3-41c and 3-52c).

At 23 Tufts Street (Table 3-59c), PCE was detected at the laboratory reporting limit in the basement in January 2009 in one duplicate sample, and below the reporting limit in the other duplicate basement sample. PCE was not detected above laboratory reporting limits in the other post-EPEM samples. In light of the sampling results, GEI conducted a performance evaluation of the SSDS and confirmed that it was operating properly and was providing adequate sub-slab vacuum coverage. GEI will conduct additional confirmatory indoor air sampling at 23 Tufts Street in the winter of 2010.

Future annual SSDS monitoring will consist of contacting property owners to schedule site visits to confirm the fan is operating and vacuum is present in the ventilation piping. We will conduct indoor air sampling during the winter of 2010.

7.2.3 50 Tufts Street

7.2.3.1 Sub Slab Depressurization System

Regular monitoring was conducted on both the SSDS and SVE system during the remedial reporting period of October 1, 2008 to April 10, 2009. Monitoring details are provided in Section 4.2. Monitoring results for the SSDS from startup (April 30, 2007) through March 31, 2009 are in Table 4-1.

7.2.3.2 Soil Vapor Extraction System

Monitoring results for the SVE system from startup (August 22, 2007) through March 31, 2009 are in Table 4-2.

Field monitoring logs for October 1, 2008 to April 10, 2009 are in Appendix J and graphs of the total VOC concentrations at the monitoring and extraction points are in Appendix O.

7.2.3.3 Indoor and Outdoor Air Monitoring

Indoor and outdoor air samples were collected during the remedial monitoring reporting period on March 9, 2009 using summa canisters (Section 4.3). Samples were submitted to Accutest for analysis by EPA Method TO-15 and reporting of the site-specific list of compounds (Section 2.3.1). Chemical testing results of the March 9, 2009 sampling, along with previous testing results, are summarized in Table 4-3 and Fig. 4-3. Air sampling checklists are in Appendix J.

7.3 Effluent Concentrations [310 CMR 40.0027(2)(c)]

7.3.1 Capuano Center

The Capuano Center's SSDS influent and effluent total VOC concentrations (measured with a PID) during the reporting period are summarized in Table 7-2.

7.3.2 Residences and Commercial Buildings

Residential and commercial building effluent concentrations were not monitored during this reporting period.

7.3.3 50 Tufts Street

The Property's SSDS/SVE effluent total VOC concentrations measured with a PID during the reporting period are summarized in Tables 4-1 and 4-2.

7.4 Identification of Discharges above Permissible Discharge Concentrations [310 CMR 40.0027(2)(d)]

The regulatory requirements for off-gas treatment for remedial air emissions are presented in DEP's Policy No. WSC-94-150, "Off-Gas Treatment of Point-Source Remedial Air Emissions." The DEP policy states that off-gas contaminant treatment is not required for SSDSs that produce a total air emission rate of volatile contaminants of less than 100 lbs/yr. GEI calculated the total VOC air emission rates for the mitigation systems, as described below. These calculations were presented in previous RMRs submitted to DEP.

7.4.1 Capuano Center

Based on previous effluent air chemical testing and measured air flow rate, it is GEI's opinion that the total VOC air emission rate of the SSDS at the Capuano Center does not exceed the criteria of 100 lbs/yr and, therefore, the SSDS does not require off-gas treatment.

7.4.2 Residences and Commercial Buildings

The total VOC air emission rates of each individual EPEM installed at a residence or at a commercial building do not exceed the criteria of 100 lbs/yr. Therefore, the EPEMs do not require off-gas treatment.

7.4.3 50 Tufts Street

Off-gas for both the SSDS and SVE system at the Property is vented through three tanks, each containing between 1,100 and 2,000 lbs of granular activated carbon or pelletized activated carbon. The tanks operate in series with a primary tank receiving the untreated system influent, a secondary tank receiving the effluent from the primary tank, and a polish tank receiving the effluent from the secondary tank. Change-outs of pelletized activated carbon occurred on November 6, 2008, December 30, 2008, and April 2, 2009 (Section 4.4). The spent carbon was transported off-site under a hazardous waste manifest. Disposal documentation is in Appendix I.

Off-gas treatment is required for the SSDS/SVE system and it must remove 95% of the VOC mass present in the influent. Effluent testing by PID, the results of which are presented in Tables 4-1 and 4-2, indicate that the existing off-gas treatment system is removing greater than 95% of the VOC mass present in the influent air.

7.5 Recovery Rates and/or Volumes [310 CMR 40.0027(2)(e)]

There is no vapor, liquid or solid recovery associated with the operation of the Active Remedial Systems at the Capuano Center or the residential/commercial properties.

7.5.1 50 Tufts Street

The Active Remedial System at the Property recovers VOCs and some water vapor. The effluent VOC concentrations measured with a PID and air flow rates are presented in the monitoring logs in Appendix J.

To estimate the total mass of VOCs removed by the system since April 30, 2007, a series of equations were used to convert PID field measurements (in ppm) to mass (in lbs) using influent air laboratory testing results. Table 7-4 summarizes the equations and conversion factors used to calculate the cumulative mass of VOCs removed. The cumulative mass of total VOCs removed through March 17, 2009 was approximately 5,420 lbs (Table 7-4).

Based on the laboratory testing results of influent air stream sampling, the combined influent consists of 94.0% PCE, 2.2% TCE, 2.7% TCA, and <1.0% each of various other compounds. Considering one gallon of PCE weighs 13.47 lbs, and one gallon of TCE weighs 12.11 lbs, approximately 402 gallons of VOCs were removed by the system between April 30, 2007

and March 17, 2009. Approximately 40 gallons of VOCs have been removed during this reporting period.

7.6 Discharge Volumes [310 CMR 40.0027(2)(f)]

The volume of effluent discharged is not calculated as part of the operation of the Active Remedial Systems at the Capuano Center or the residential/commercial properties.

7.6.1 50 Tufts Street

The effluent VOC concentrations for the Active Remedial System at the Property are in Tables 4-1 and 4-2, and in the monitoring logs in Appendix L. Air flow rates are in Appendix O and Table 7-4.

7.7 Date, Location, Type and Volume of Remedial Additives Applications [310 CMR 40.0027(2)(g)]

No remedial additives have been applied as part of the Active Remedial Systems.

7.8 Groundwater Data [310 CMR 40.0027(2)(h)]

No groundwater data have been collected as part of the Active Remedial Systems.

7.9 Related Maps, Graphs or Diagrams [310 CMR 40.0027(2)(i)]

Related tables, maps, and inspection logs are included in this report.



Geotechnical
Environmental
Water Resources
Ecological



50 Tufts Street, Somerville, Massachusetts
May 11, 2009

Tables

DEP Regulatory Submittals (RTN: 3-23246)

**50 Tufts Street
Somerville, Massachusetts**

1. **Imminent Hazard Evaluation**, RTNs 3-23246 and 3-24358, 50 Tufts Street, Somerville, Massachusetts, dated January 9, 2006.
2. **IRA Plan**, 50 Tufts Street, Somerville, Massachusetts, RTNs 3-23246, 3-24358 and 3-24376, dated January 9, 2006.
3. **IRA Status Report No. 1**, 50 Tufts Street, Somerville, Massachusetts, RTNs 3-23246, 3-24358 and 3-24376, dated May 8, 2006.
4. **Phase I, Initial Site Investigation, and Tier Classification**, 50 Tufts Street, Somerville, Massachusetts, RTNs 3-23246, 3-24358 and 3-24376, dated June 16, 2006.
5. **Interim IRA Status Report and IRA Plan Modification**, 50 Tufts Street, Somerville, Massachusetts, RTNs 3-23246, 3-24358 and 3-24376, dated June 27, 2006.
6. **Imminent Hazard Retraction**, 50 Tufts Street, Somerville, Massachusetts, RTN 3-26114, dated September 21, 2006.
7. **IRA Plan Modification No. 2**, 50 Tufts Street, Somerville, Massachusetts, RTN 3-23246, dated September 21, 2006.
8. **IRA Plan**, RTN 3-26114, 50 Tufts Street, Somerville, Massachusetts, dated November 13, 2006.
9. **IRA Status Report No. 2 and Plan Modification No. 3**, 50 Tufts Street, Somerville, Massachusetts, RTN 3-23246, dated November 13, 2006.
10. **IRA Plan Modification No. 4**, 50 Tufts Street, Somerville, Massachusetts, RTNs 3-23246 and 3-26114, dated February 22, 2007.
11. **IRA Plan**, 50 Tufts Street, Somerville, Massachusetts, RTN 3-26114, dated April 9, 2007.
12. **IRA Plan Modification No. 1**, 50 Tufts Street, Somerville, Massachusetts, RTN 3-26114, dated April 12, 2007.
13. **IRA Plan Modification No. 5**, 50 Tufts Street, Somerville, Massachusetts, RTN 3-23246, dated May 5, 2007.
14. **IRA Status Report No. 3**, 50 Tufts Street, Somerville, Massachusetts, RTN 3-23246, & **IRA Status Report No. 1**, RTN 3-26114, dated May 16, 2007.
15. **Phase II Scope of Work**, RTNs 3-23246 and 3-26114, 50 Tufts Street, Somerville, Massachusetts, dated May 18, 2007.
16. **IRA Plan Modification No. 6**, 50 Tufts Street, RTN 3-23246. Somerville, Massachusetts, dated July 5, 2007.
17. **Phase II Scope of Work Amendment**, RTNs 3-23246 and 3-26114, 50 Tufts Street, Somerville, Massachusetts, dated July 31, 2007.
18. **Remedial Monitoring Report No. 1**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated August 30, 2007.
19. **Monthly Remedial Monitoring Report No. 2**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated August 30 2007.
20. **Monthly Remedial Monitoring Report No. 3**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated August 30, 2007.

Table 1-1
DEP Regulatory Submittals (RTN: 3-23246)
50 Tufts Street
Somerville, Massachusetts

21. **Monthly Remedial Monitoring Report No. 4**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated August 30, 2007.
22. **IRA Plan Modification No. 7**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated October 11, 2007.
23. **IRA Plan Modification No. 8**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated October 11, 2007.
24. **Monthly Remedial Monitoring Report No. 5**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated October 19, 2007.
25. **Monthly Remedial Monitoring Report No. 6A**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated October 31, 2007.
26. **Monthly Remedial Monitoring Report No. 6B**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated November 8, 2007.
27. **Monthly Remedial Monitoring Report No. 7A**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated November 8, 2007.
28. **Monthly Remedial Monitoring Report No. 7B**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated November 8, 2007.
29. **IRA Plan Modification No. 9**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated November 9, 2007.
30. **IRA Status Report No. 4**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated November 9, 2007.
31. **IRA Plan Modification No. 10**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated December 17, 2007.
32. **Phase II Scope of Work Amendment No. 2**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated February 19, 2008.
33. **IRA Plan Modification No. 11**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated April 9, 2008.
34. **IRA Plan Modification No. 12**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated April 15, 2008.
35. **IRA Status Report No. 5 & Remedial Monitoring Report No. 8**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated May 15, 2008.
36. **IRA Plan Modification No. 13**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated May 16, 2008.
37. **Phase II Comprehensive Site Assessment, Method 3 Risk Characterization, and Phase III Remedial Action Plan**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated July 14, 2008.
38. **IRA Plan Modification No. 14**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated August 21, 2008.

Table 2-1
Chemical Testing Results - Indoor Air
Capuano Center
150 Glen Street
Somerville, Massachusetts

Sample Location: Sample ID: Sample Date: Units:		Cafetorium		Room 101				Room 108				Room 121		Room 122				Room 125				Room 126			
		150 GLEN-CAF		150 GLEN-ROOM 101A		150 GLEN-ROOM 101B		150 GLEN-ROOM 108A		150 GLEN-ROOM 108B		150 GLEN-ROOM 121		150 GLEN-ROOM 122		150 GLEN-RM 122		150 GLEN-ROOM 125A		150 GLEN-ROOM 125B		150 GLEN-ROOM 126		150 GLEN-ROOM 100 (FD-Room 126)	
		1/6/2007		12/27/2006		12/28/2006		12/27/2006		12/28/2006		1/6/2007		1/6/2007		2/7/2007		12/27/2006		12/28/2006		1/13/2007		1/13/2007	
Analyte	Method	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Volatile Organic Compounds (VOCs)		TO-15																							
Carbon tetrachloride		0.49 J J+	0.078 J J+	< 1.3	< 0.20	< 1.3	< 0.20	0.94 J	0.15 J	< 1.3	< 0.20	0.52 J J+	0.082 J J+	0.51 J	0.081 J J+	0.69 J	0.11 J	1.0 J	0.16 J	< 1.3	< 0.20	0.69 J	0.11 J	0.63 J	0.10 J
Dichloroethane, 1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene, 1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane, 1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		0.88 J J+	0.13 J J+	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	0.88 J	0.13 J	0.75 J	0.11 J
Trichloroethane, 1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. FD = Field Duplicate.

Qualifying Notes:

- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 2-1
Chemical Testing Results - Indoor Air
Capuano Center
150 Glen Street
Somerville, Massachusetts

Sample Location:		Room 126 (continued)																							
Sample ID:		150 GLEN-RM 126		150GLEN-ROOM 126		150 GLEN-ROOM 126		150 GLEN-RM 126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126	
Sample Date:		2/7/2007		3/8/2007		4/20/2007		5/17/2007		7/30/2007		9/10/2007		10/8/2007		10/14/2007		11/15/2007		12/13/2007		1/21/2008		2/19/2008	
Units:																									
Analyte	Method	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)		TO-15																							
Carbon tetrachloride		0.94 J	0.15 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.60 J	0.095 J	0.69 J	0.11 J	0.82 J	0.13 J	< 1.3	< 0.20	0.69 J	0.11 J	0.59 J	0.093 J	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	1.0 J	0.15 J	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. FD = Field Duplicate.

Qualifying Notes:

- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 2-1
Chemical Testing Results - Indoor Air
Capuano Center
150 Glen Street
Somerville, Massachusetts

Sample Location:		Room 126 (continued)												Room 134				Room 136		Room 137				Room 138	
Sample ID:		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150 GLEN-ROOM 134		150 GLEN-RM 134		150 GLEN-ROOM 136		150 GLEN-ROOM 137A		150 GLEN-ROOM 137B		RM138	
Sample Date:		2/22/2008		3/17/2008		4/21/2008		8/18/2008		11/24/2008		3/2/2009		1/13/2007		2/7/2007		1/13/2007		1/6/2007		1/6/2007		1/2/2007	
Units:		µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	Method																								
Volatile Organic Compounds (VOCs)		TO-15																							
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	0.60 J	0.096 J	0.60 J	0.096 J	< 1.3	< 0.20	0.75 J	0.12 J	0.94 J	0.15 J	0.69 J	0.11 J	0.52 J J+	0.082 J J+	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane, 1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	0.45 J	0.11 J
Dichloroethene, 1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane, 1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	3.2	0.47	< 1.4	< 0.20	2.1	0.31	< 1.4	< 0.20	< 1.4	< 0.20	14	2
Trichloroethane, 1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.54 J	0.10 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	2.3	0.42

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. FD = Field Duplicate.

Qualifying Notes:

- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 2-1
Chemical Testing Results - Indoor Air
Capuano Center
150 Glen Street
Somerville, Massachusetts

Sample Location:		Room 138 (continued)																					
Sample ID:		150 GLEN-ROOM 138		150 GLEN-ROOM 138		150 GLEN-ROOM 138		150 GLEN-ROOM 138 (Alpha duplicate)		150 GLEN-RM 138		150 GLEN-RM 139 (FD-Room 138)		150GLEN-ROOM 138		150GLEN-ROOM 139 (FD-Room 138)		150 GLEN-ROOM 138		150GLEN-ROOM 139 (FD-Room 138)		150 GLEN-RM 138	
Sample Date:		1/6/2007		1/13/2007		1/26/2007		1/26/2007		2/7/2007		2/7/2007		3/8/2007		3/8/2007		4/20/2007		4/20/2007		5/17/2007	
Units:		µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	Method																						
Volatile Organic Compounds (VOCs)																							
Carbon tetrachloride	TO-15	0.49 J J+	0.078 J J+	0.82 J	0.13 J	0.82 J	0.13 J	< 0.126	< 0.020	0.75 J	0.12 J	0.52 J	0.082 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		0.77 J J+	0.19 J J+	0.57 J	0.14 J	0.65 J	0.16 J	< 0.081	< 0.020	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene,1,1-		2.1 J+	0.54 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.079	< 0.020	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.079	< 0.020	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		0.83 J+	0.21 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.0819	< 0.020	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		60 J+	8.8 J+	20	3	20	3	32.6	4.8	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane, 1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 0.109	< 0.020	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		7 J+	1.3 J+	3.1	0.57	3.3	0.61	4.26	0.794	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

- General Notes:**
- 1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
 - 2. µg/m³ = micrograms per cubic meter.
 - 3. ppbv = parts per billion by volume.
 - 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 - 5. FD = Field Duplicate.

- Qualifying Notes:**
- J The reported result is below the laboratory reporting limit and is estimated.
 - J+ The reported result is estimated.

Table 2-1
Chemical Testing Results - Indoor Air
Capuano Center
150 Glen Street
Somerville, Massachusetts

Sample Location:		Room 138 (continued)																							
Sample ID:		150GLEN-ROOM 139 (FD-Room 138)		150GLEN-RM138		150GLEN-ROOM 139 (FD-Room 138)		150GLEN-RM138		150GLEN-ROOM 139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM239 (FD-Room 138)		150GLEN-RM238 (FD-Room 138)		150GLEN- RM138		150GLEN-ROOM 139 (FD-Room 138)		150GLEN-RM238 (FD-Room 138)	
Sample Date:		5/17/2007		7/30/2007		7/30/2007		9/10/2007		9/10/2007		10/8/2007		10/8/2007		10/8/2007		10/8/2007		10/8/2007		10/14/2007		10/14/2007	
Units:		µg/m ³		µg/m ³		µg/m ³		µg/m ³		µg/m ³		µg/m ³		µg/m ³		µg/m ³		µg/m ³		µg/m ³		µg/m ³		µg/m ³	
Analyte	Method	ppbv		ppbv		ppbv		ppbv		ppbv		ppbv		ppbv		ppbv		ppbv		ppbv		ppbv		ppbv	
Volatile Organic Compounds (VOCs)		TO-15																							
Carbon tetrachloride		< 1.3	< 0.20	0.61 J	0.097 J	0.69 J	0.11 J	0.69 J	0.11 J	0.69 J	0.11 J	0.69 J	0.11 J	0.88 J	0.14 J	0.82 J	0.13 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.59 J	0.094 J
Dichloroethane, 1,1,-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81 J+	< 0.20 J+	< 0.81 J+	< 0.20 J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene, 1,1,-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79 J+	< 0.20 J+	< 0.79 J+	< 0.20 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane, 1,2,-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81 J+	< 0.20 J+	< 0.81 J+	< 0.20 J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2,-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79 J+	< 0.20 J+	< 0.79 J+	< 0.20 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	1.2 J	0.17 J	1.1 J	0.16 J	< 1.4 J+	< 0.20 J+	6.5	0.96	< 1.4	< 0.20	1.5	0.22	1.2 J	0.18 J	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane, 1,1,1,- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1 J+	< 0.20 J+	< 1.1 J+	< 0.20 J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1 J+	< 0.20 J+	< 1.1 J+	< 0.20 J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

- General Notes:**
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
 2. µg/m³ = micrograms per cubic meter.
 3. ppbv = parts per billion by volume.
 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 5. FD = Field Duplicate.

- Qualifying Notes:**
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 2-1
Chemical Testing Results - Indoor Air
Capuano Center
150 Glen Street
Somerville, Massachusetts

Sample Location:		Room 138 (continued)																							
Sample ID:		150GLEN-RM239 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138	
Sample Date:		10/14/2007		11/15/2007		11/15/2007		12/13/2007		12/13/2007		1/21/2008		1/21/2008		2/19/2008		2/19/2008		2/22/2008		2/22/2008		3/17/2008	
Units:		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
Analyte	Method	ppbv		ppbv		ppbv		ppbv		ppbv		ppbv		ppbv		ppbv		ppbv		ppbv		ppbv		ppbv	
Volatile Organic Compounds (VOCs)		TO-15																							
Carbon tetrachloride		0.62 J	0.099 J	0.69 J	0.11 J	0.69 J	0.11 J	0.57 J	0.091 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane, 1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene, 1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane, 1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	1.8	0.27	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane, 1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. FD = Field Duplicate.

Qualifying Notes:

- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 2-1
Chemical Testing Results - Indoor Air
Capuano Center
150 Glen Street
Somerville, Massachusetts

Sample Location:		Room 138 (continued)																		Room 141									
Sample ID:		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150GLEN-RM138		150GLEN-RM139 (FD-Room 138)		150 GLEN-ROOM 141		150GLEN-ROOM 141		150 GLEN-ROOM 141		150 GLEN-RM 141			
Sample Date:		3/17/2008		4/21/2008		4/21/2008		8/18/2008		8/18/2008		11/24/2008		11/24/2008		3/2/2009		3/2/2009		1/6/2007		3/8/2007		4/20/2007		5/17/2007			
Units:		µg/m³		ppbv		µg/m³		ppbv		µg/m³		ppbv		µg/m³		ppbv		µg/m³		ppbv		µg/m³		ppbv		µg/m³		ppbv	
Analyte	Method	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Volatile Organic Compounds (VOCs)		TO-15																											
Carbon tetrachloride		< 1.3	< 0.20	0.75 J	0.12 J	0.69 J	0.11 J	0.69 J	0.11 J	0.63 J	0.10 J	0.62 J	0.098 J	0.63 J	0.10 J	< 1.3	< 0.20	< 1.3	< 0.20	0.45 J J+	J+	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
- µg/m³ = micrograms per cubic meter.
- ppbv = parts per billion by volume.
- "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
- FD = Field Duplicate.

Qualifying Notes:

- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 2-1
Chemical Testing Results - Indoor Air
Capuano Center
150 Glen Street
Somerville, Massachusetts

Sample Location:		Room 141 (continued)																							
Sample ID:		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141	
Sample Date:		7/30/2007		9/10/2007		10/8/2007		10/14/2007		11/15/2007		12/13/2007		1/21/2008		2/19/2008		2/22/2008		3/17/2008		4/21/2008		8/18/2008	
Units:		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
Analyte	Method	ppbv		ppbv		ppbv		ppbv		ppbv		ppbv		ppbv		ppbv		ppbv		ppbv		ppbv		ppbv	
Volatile Organic Compounds (VOCs)		TO-15																							
Carbon tetrachloride		< 1.3 J+	< 0.20 J+	0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	0.69 J	0.11 J	0.60 J	0.096 J
Dichloroethane,1,1-		< 0.81 J+	< 0.20 J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene,1,1-		< 0.79 J+	< 0.20 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane,1,2-		< 0.81 J+	< 0.20 J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79 J+	< 0.20 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4 J+	< 0.20 J+	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20 J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20 J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.62 J	0.092 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
- µg/m³ = micrograms per cubic meter.
- ppbv = parts per billion by volume.
- "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
- FD = Field Duplicate.

Qualifying Notes:

- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 2-1
Chemical Testing Results - Indoor Air
Capuano Center
150 Glen Street
Somerville, Massachusetts

Sample Location:		Room 141 (continued)						Room 142																	
Sample ID:		150GLEN-RM141		150GLEN-RM141		RM142		150 GLEN-ROOM 142		150 GLEN-RM 142		150GLEN-ROOM 142		150 GLEN-ROOM 142		150 GLEN-RM 142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142	
Sample Date:		11/24/2008		3/2/2009		1/2/2007		1/6/2007		2/7/2007		3/8/2007		4/20/2007		5/17/2007		7/30/2007		9/10/2007		10/8/2007		10/14/2007	
Units:																									
Analyte	Method	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Volatile Organic Compounds (VOCs)		TO-15																							
Carbon tetrachloride		0.63 J	0.10 J	< 1.3	< 0.20	< 1.3	< 0.20	0.52 J J+	0.083 J J+	0.82 J	0.13 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.63 J	0.10 J	0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	1.4	0.35	1.2 J+	0.29 J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	0.87	0.22	2.5 J+	0.63 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	1	0.25	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	28	4.1	45 J+	6.6 J+	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.33 J J+	0.061 J J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethylene (TCE)		0.62 J	0.092 J	< 1.1	< 0.20	3.7	0.69	5.4 J+	1 J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

- General Notes:**
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
 2. µg/m³ = micrograms per cubic meter.
 3. ppbv = parts per billion by volume.
 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 5. FD = Field Duplicate.

- Qualifying Notes:**
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 2-1
Chemical Testing Results - Indoor Air
Capuano Center
150 Glen Street
Somerville, Massachusetts

Sample Location:		Room 142																				Room 144			
Sample ID:		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150 GLEN-ROOM 144		150 GLEN-ROOM 144 (Alpha duplicate)			
Sample Date:		11/15/2007		12/13/2007		1/21/2008		2/19/2008		2/22/2008		3/17/2008		4/21/2008		8/18/2008		11/24/2008		3/2/2009		1/13/2007		1/13/2007	
Analyte	Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
	Method																								
Volatile Organic Compounds (VOCs)		TO-15																							
Carbon tetrachloride		0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.75 J	0.12 J	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	0.88 J	0.14 J	< 3.14	< 0.50
Dichloroethane, 1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 2.02	< 0.50
Dichloroethene, 1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 1.98	< 0.50
Dichloroethane, 1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 1.98	< 0.50
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 2.02	< 0.50
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	4.1	0.61
Trichloroethane, 1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 2.72	< 0.50
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	1.3	0.24	< 2.68	< 0.50

- General Notes:**
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
 2. µg/m³ = micrograms per cubic meter.
 3. ppbv = parts per billion by volume.
 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 5. FD = Field Duplicate.

- Qualifying Notes:**
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 2-1
Chemical Testing Results - Indoor Air
Capuano Center
150 Glen Street
Somerville, Massachusetts

Sample Location: Sample ID: Sample Date: Units:		Room 145				Room 146																			
		150 GLEN-ROOM 145		150 GLEN-ROOM 146A		150 GLEN-ROOM 146B		150 GLEN-ROOM 146B (FD-Room 146)		RM146		150 GLEN-ROOM 146		150 GLEN-RM 146		150GLEN-ROOM 146		150 GLEN-ROOM 146		150 GLEN-RM 146		150GLEN-RM146		150GLEN-RM146	
		1/6/2007		12/27/2006		12/28/2006		12/28/2006		1/2/2007		1/6/2007		2/7/2007		3/8/2007		4/20/2007		5/17/2007		7/30/2007		9/10/2007	
Analyte	Method	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Volatile Organic Compounds (VOCs)		TO-15																							
Carbon tetrachloride		0.45 J J+	0.071 J J+	1.1 J	0.18 J	< 1.3	< 0.20	0.49 J	0.078 J	0.63 J	0.10 J	< 1.3	< 0.20	0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.62 J	0.099 J	0.82 J	0.13 J
Dichloroethane, 1,1-		< 0.81	< 0.20	10	2.5	3.6	0.88	3.3	0.82	0.53 J	0.13 J	0.57 J J+	0.14 J J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81 J+	< 0.20 J+	< 0.81	< 0.20
Dichloroethene, 1,1-		< 0.79	< 0.20	7.9	2	4	1	3.9	0.99	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79 J+	< 0.20 J+	< 0.79	< 0.20
Dichloroethane, 1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81 J+	< 0.20 J+	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	3.3	0.83	1.3	0.33	1.2	0.31	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79 J+	< 0.20 J+	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	186	27.5	83.4	12.3	85.4	12.6	11	1.6	26 J+	3.8 J+	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	1.0 J	0.15 J	< 1.4	< 0.20
Trichloroethane, 1,1,1- (TCA)		< 1.1	< 0.20	2.1	0.38	0.82 J	0.15 J	0.71 J	0.13 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1 J+	< 0.20 J+	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	37	6.8	10	1.9	11	2.1	1.7	0.32	3.0 J+	0.56 J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1 J+	< 0.20 J+	< 1.1	< 0.20

- General Notes:**
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
 2. µg/m³ = micrograms per cubic meter.
 3. ppbv = parts per billion by volume.
 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 5. FD = Field Duplicate.

- Qualifying Notes:**
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 2-1
Chemical Testing Results - Indoor Air
Capuano Center
150 Glen Street
Somerville, Massachusetts

Sample Location:		Room 146 (continued)																							
Sample ID:		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146	
Sample Date:		10/8/2007		10/14/2007		11/15/2007		12/13/2007		1/21/2008		2/19/2008		2/22/2008		3/17/2008		4/21/2008		8/18/2008		11/24/2008		3/2/2009	
Units:		µg/m³		ppbv		µg/m³		ppbv		µg/m³		ppbv		µg/m³		ppbv		µg/m³		ppbv		µg/m³		ppbv	
Analyte	Method	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Volatile Organic Compounds (VOCs)		TO-15																							
Carbon tetrachloride		< 1.3	< 0.20	0.58 J	0.092 J	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.62 J	0.098 J	< 1.3	< 0.20	0.75 J	0.12 J	0.60 J	0.096 J	0.63 J	0.10 J	< 1.3	< 0.20
Dichloroethane, 1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethene, 1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane, 1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	0.49 J	0.12 J	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane, 1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

- General Notes:**
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
 2. µg/m³ = micrograms per cubic meter.
 3. ppbv = parts per billion by volume.
 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 5. FD = Field Duplicate.

- Qualifying Notes:**
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 2-2
Chemical Testing Results - Outdoor Air
Capuano Center
150 Glen Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Units: Analyte Method		Outside of School by Room 126 Window						Outside of School by Day Care Window						Downwind on Roof									
		150 GLEN-0-1A 12/27/06		150 GLEN-0-1B 12/28/06		150 GLEN-0-1A 1/6/07		150 GLEN-0-2A 12/27/06		150 GLEN-0-2B 12/28/06		150 GLEN-0-2A 1/6/07		150 GLEN-ROOF B 2/8/07		150 GLEN-ROOF B 2/8/07		150GLEN-ROOF 3/8/07		150 GLEN-ROOF 4/20/07		150 GLEN-ROOF 5/17/07	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)		TO-15																					
Acetone		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	0.52 J J+	0.083 J J+	1.1 J	0.17 J	< 1.3	< 0.20	0.52 J J+	0.082 J J+	< 1.3	< 1.3	< 0.20	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1,-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.81	< 0.20	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2,-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.81	< 0.20	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.79	< 0.20	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Methyl ethyl ketone		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethylene,1,1,-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.79	< 0.20	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethane,1,1,2,2,-		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 1.4	< 0.20	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 1.4	< 0.20	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Tetrahydrofuran		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Trichloroethane,1,1,1,- (TCA)		< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 1.2	< 0.21	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 1.1	< 0.20	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

- General Notes:**
- Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
 - µg/m³ = micrograms per cubic meter.
 - ppbv = parts per billion by volume.
 - "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 - NT = not tested.
 - The sample collected on August 9, 2007 is part of the July monthly sampling round. It was not collected at the same time (7/31/07) as the indoor air samples for the sampling round because of access issues.

- Qualifying Notes:**
- B The target compound was present in the associated method blank.
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 2-2
Chemical Testing Results - Outdoor Air
Capuano Center
150 Glen Street
Somerville, Massachusetts

Sample Location:		Downwind on Roof (continued)																						Blower Effluent	
Sample Name:		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-2/8/07	
Sample Date:		8/9/07		9/10/07		10/14/07		11/14/07		12/17/07		1/21/08		2/19/08		3/17/08		4/21/08		8/18/08		11/24/08			
Units:		µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	Method																								
Volatile Organic Compounds (VOCs)		TO-15																							
Acetone		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	45.4 B	19.1 B
Carbon tetrachloride		< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	0.63 J	0.10 J	0.63 J	0.10 J	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	24	6.0
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Methyl ethyl ketone		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	380 J+	129 J+
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	10	2.6
Tetrachloroethane,1,1,2,2-		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	1.2 J	0.18 J	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	577 J+	85.1 J+
Tetrahydrofuran		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	571 J+	194 J+
Trichloroethane,1,1,1- (TCA)		< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.1	< 0.20	4.9	0.72
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	98.3	18.3

- General Notes:**
- Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
 - µg/m³ = micrograms per cubic meter.
 - ppbv = parts per billion by volume.
 - "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 - NT = not tested.
 - The sample collected on August 9, 2007 is part of the July monthly sampling round. It was not collected at the same time (7/31/07) as the indoor air samples for the sampling round because of access issues.

- Qualifying Notes:**
- B The target compound was present in the associated method blank.
 - J The reported result is below the laboratory reporting limit and is estimated.
 - J+ The reported result is estimated.

Table 2-3
Summary of Meteorological Data During Air Sampling Events
Capuano Center
150 Glen Street
Somerville, Massachusetts

Sample Date:	Outside Temperature (°F):		Outside Barometric Pressure (in. Hg):		Prevailing Wind Direction:		General Weather Conditions:		Significant precipitation within 12 hours prior to sampling?
	Start	End	Start	End	Start	End	Start	End	
11/24/2008 3/2/2009	42.9 25	40.2 23.8	30.20 29.73	30.16 29.77	SE N	SE NW	Partly cloudy Snow	Windy, Overcast Light snow	No Yes

General Notes:

1. °F = degrees Fahrenheit.
2. in. Hg = inches of mercury.
3. Temperatures were measured in the field using a hand-held thermometer.
4. Barometric pressures were measured in the field with a portable digital barometer.

Table 3-1
List of Properties within IRA Study Area
Residential and Commercial Properties
50 Tufts Street
Somerville, Massachusetts

Property:	Building Description:	Indoor Air Sampling Conducted:	Soil Vapor Sampling Conducted:	Air Purifier Installed:	EPEM ² Recommended:	EPEM ² Installed:
2 Alston Street	Multi-family Residential	No	No	No	No	No
6 Alston Street	Multi-family Residential	No	No	No	No	No
10 Alston Street ¹	Garage	No	No	No	No	No
12 Alston Street	Multi-family Residential	No	Yes	No	No	No
16-20 Alston Street	Multi-family Residential	Yes	Yes	Yes	Yes ^{3,4}	No
30-40 Alston Street	Commercial	Yes	Yes	No	No	No
142 Cross Street	Commercial	Yes	Yes	No	No	No
9 Franklin Avenue	Single-family Residential	No	No	No	No	No
10 Franklin Avenue	Single-family Residential	No	No	No	No	No
12 Franklin Avenue	Multi-family Residential	No	No	No	No	No
18 Franklin Avenue	Multi-family Residential	No	No	No	No	No
20 Franklin Avenue	Single-family Residential	No	No	No	No	No
74 Franklin Street	Multi-family Residential	Yes	Yes	No	No	No
76 Franklin Street	Single-family Residential	Yes	Yes	No	No	No
80 Franklin Street	Multi-family Residential	Yes	Yes	No	No	No
82 Franklin Street	Single-family Residential	Yes	Yes	No	No	No
86 Franklin Street	Multi-family Residential	Yes	Yes	No	No	No
91-93 Franklin Street	Multi-family Residential	Yes	Yes	Yes ⁵	Yes	In-progress
95 Franklin Street	Single-family Residential	Yes	Yes	Yes	Yes	Yes
95R Franklin Street	Single-family Residential	Yes	Yes	Yes ⁵	Yes	Yes
97 Franklin Street	Single-family Residential	Yes	Yes	No	No	No
97R Franklin Street	Single-family Residential	Yes	Yes	No	No	No
99 Franklin Street	Multi-family Residential	Yes	Yes	No	No	No
152-154 Glen Street	Multi-family Residential	Yes	Yes	No	No	No
156 Glen Street	Multi-family Residential	Yes	Yes	No	No	No
162-164 Glen Street	Multi-family Residential	Yes	Yes	Yes	Yes	No
163 Glen Street	Commercial	Yes	Yes	No	No	No
166-168 Glen Street	Multi-family Residential	Yes	Yes	Yes	Yes	No
2 Hadley Court #2a	Multi-family Residential	Yes	Yes	No	No	No
2 Hadley Court #2b	Multi-family Residential	Yes	Yes	No	No	No
2 Hadley Court #2c	Multi-family Residential	Yes	Yes	No	No	No
9 Knowlton Street	Multi-family Residential	Yes	Yes	Yes	Yes	No
12-14 Knowlton Street	Multi-family Residential	Yes	Yes	No	No	No
13 Knowlton Street	Multi-family Residential	Yes	Yes	Yes	Yes	No
17 Knowlton Street	Multi-family Residential	Yes	Yes	Yes ⁵	Yes	Yes
19 Knowlton Street	Multi-family Residential	Yes	Yes	No	No	No
23 Knowlton Street	Multi-family Residential	Yes	Yes	No	No	No
27 Knowlton Street	Multi-family Residential	Yes	Yes	No	No	No
29 Knowlton Street	Multi-family Residential	Yes	Yes	No	No	No
31-33 Knowlton Street	Multi-family Residential	Yes	Yes	Yes ⁵	Yes	Yes
32 Knowlton Street	Multi-family Residential	Yes	Yes	Yes	Yes	In-progress
34 Knowlton Street ¹	Garage	No	No	No	No	No
35-37 Knowlton Street	Multi-family Residential	Yes	Yes	Yes ⁵	Yes	Yes

General Notes:

- Property contains non-commercial garage only. There is no living space.
- EPEM = Exposure Path Elimination Measure.
- Property owner declined EPEM installation.
- EPEM being reevaluated because PCE concentrations pose No Significant Risk.
- Removed following EPEM installation.
- Property owner declined air purifier installation.
- EPEM being reevaluated because recommendation was made only on soil vapor results.
- NA = Not Applicable.

Table 3-1
List of Properties within IRA Study Area
Residential and Commercial Properties
50 Tufts Street
Somerville, Massachusetts

Property:	Building Description:	Indoor Air Sampling Conducted:	Soil Vapor Sampling Conducted:	Air Purifier Installed:	EPEM ² Recommended:	EPEM ² Installed:
4 Morton Street	Multi-family Residential	No	Yes	Yes ⁵	Yes	Yes
6-8 Morton Street	Multi-family Residential	Yes	Yes	No	No	No
7 Morton Street	Multi-family Residential	Yes	Yes	No	No	No
10 Morton Street	Single-family Residential	Yes	Yes	Yes ⁵	Yes	Yes
11 Morton Street	Multi-family Residential	Yes	Yes	Yes ⁵	Yes	Yes
12 Morton Street	Multi-family Residential	Yes	Yes	Yes ⁵	Yes	Yes
13 Morton Street	Multi-family Residential	Yes	Yes	Yes ⁵	Yes	Yes
15-17 Morton Street	Multi-family Residential	Yes	Yes	No	No	No
18 Morton Street	Multi-family Residential	Yes	Yes	Yes ⁵	Yes	Yes
19-19A Morton Street	Multi-family Residential	Yes	Yes	Yes	Yes	In-progress
21 Morton Street	Multi-family Residential	Yes	Yes	No	No	No
5 Palmer Avenue	Single-family Residential	No	No	No	No	No
9 Tufts Street	Multi-family Residential	Yes	No	Yes	Yes ³	No
11-13 Tufts Street	Multi-family Residential	Yes	No	Yes	Yes ^{3,4}	No
17 Tufts Street	Multi-family Residential	Yes	No	Yes	Yes ³	No
19 Tufts Street	Multi-family Residential	Yes	No	No ⁶	Yes ³	No
23 Tufts Street	Multi-family Residential	Yes	No	Yes ⁵	Yes	Yes
25 Tufts Street	Multi-family Residential	Yes	No	Yes	Yes ^{3,4}	No
27 Tufts Street	Multi-family Residential	Yes	Yes	Yes ⁵	Yes	Yes
45-47 Tufts Street, # 1	Multi-family Residential	Yes	No	No	No	No
45-47 Tufts Street, #4	Multi-family Residential	Yes	No	No	No	No
49 Tufts Street	Single-family Residential	Yes	Yes	Yes	Yes ⁴	No
51-51a Tufts Street	Multi-family Residential	Yes	No	No	No	No
53 Tufts Street	Multi-family Residential	Yes	Yes	No	No	No
60 Tufts Street	Multi-family Residential	No	Yes	NA	Yes	In-progress
60 Tufts Street, #4	Multi-family Residential	Yes	Yes	Yes	Yes	In-progress
61 Tufts Street, #5	Multi-family Residential	Yes	NA	No	Yes	In-progress
60 Tufts Street, #10	Multi-family Residential	Yes	NA	Yes	Yes	In-progress
60 Tufts Street, #16	Multi-family Residential	Yes	NA	No	Yes	In-progress
75 Washington Street	Commercial	No	No	No	No	No
79 Washington Street	Single-family Residential	No	No	No	No	No
81-83 Washington Street	Multi-family Residential	No	No	No	No	No
85 Washington Street	Commercial	Yes	Yes	No	No	No
91 Washington Street	Commercial	No	No	No	No	No
97 Washington Street	Commercial	Yes	Yes	No	No	No
103 Washington Street	Commercial	No	Yes	NA	Yes	Yes
105-107 Washington Street	Multi-family Residential	No	Yes	Yes	Yes ⁷	No
111 Washington Street	Multi-family Residential	No	Yes	Yes	Yes ^{3,7}	No
113 Washington Street	Commercial	No	No	No	No	No
117 Washington Street	Multi-family Residential	No	No	No	No	No
121 Washington Street	Commercial	Yes	Yes	No	No	No
137 Washington Street	Commercial	No	No	No	No	No

General Notes:

- 1 Property contains non-commercial garage only. There is no living space.
2. EPEM = Exposure Path Elimination Measure.
3. Property owner declined EPEM installation.
4. EPEM being reevaluated because PCE concentrations pose No Significant Risk.
5. Removed following EPEM installation.
6. Property owner declined air purifier installation.
7. EPEM being reevaluated because recommendation was made only on soil vapor results.
8. NA = Not Applicable.

Table 3-2

Summary of Meteorological Data During Indoor Air Sampling Events

Residential and Commercial Properties

50 Tufts Street

Somerville, Massachusetts

Sample Location	Sample Date	Sample ID	Outside Temperature (°F) ^{1,3}		Outside Barometric Pressure (in. Hg) ^{2,4}		Inside Temperature (°F) ^{1,3}		Inside Barometric Pressure (in. Hg) ^{2,4}		Prevailing Wind Direction		General Weather Conditions		Significant precipitation within 12 hours prior to Sampling?
			Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	
142 Cross Street	1/15/2009	B	18.0	19.6	30.45	30.42	34.1	35.4	30.50	30.42	Calm	Calm	Overcast	Overcast	No
142 Cross Street	1/15/2009	1	18.0	19.6	30.45	30.42	28.6	29.3	30.48	30.36	Calm	Calm	Overcast	Overcast	No
91-93 Franklin Street	4/8/2009	B	43	48	29.50	29.51	60	58	29.50	29.50	E	E	Cloudy	Cloudy	No
91-93 Franklin Street	4/8/2009	1	43	48	29.50	29.51	68	65	29.50	29.50	E	E	Cloudy	Cloudy	No
95R Franklin Street	4/3/2009	1	45	48	29.71	29.46	69	67	29.71	29.46	N	N	Cloudy	Rain	No
95R Franklin Street	4/3/2009	B	45	48	29.71	29.46	65	63	29.71	29.46	N	N	Cloudy	Rain	No
97 Franklin Street	1/14/2009	1	23.2	23.8	30.18	30.21	66.2	66.2	30.18	30.21	NW	NW	Sunny, Windy	Sunny, Windy	No
97 Franklin Street	1/14/2009	B	23.2	23.8	30.18	30.21	60.8	59.1	30.18	30.24	NW	NW	Sunny, Windy	Sunny, Windy	No
97R Franklin Street	1/19/2009	1	46.7	55.3	29.51	29.55	73.8	61.7	29.60	29.54	NW	NW	Sunny	Sunny	Yes
97R Franklin Street	1/19/2009	B	46.7	55.3	29.51	29.55	63.3	57.1	29.61	29.54	NW	NW	Sunny	Sunny	Yes
156 Glen Street	1/13/2009	1	32.1	35.4	30.37	30.18	64.4	70.5	30.45	30.24	S	SE	Mostly cloudy	Overcast	No
156 Glen Street	1/13/2009	B	32.1	35.4	30.37	30.18	48.9	51.8	30.48	30.24	S	SE	Mostly cloudy	Overcast	No
163 Glen Street	1/13/2009	1A	32.1	35.4	30.37	30.18	56.3	62.0	30.42	30.18	S	SE	Mostly cloudy	Overcast	No
163 Glen Street	1/13/2009	1B	32.1	35.4	30.37	30.18	56.3	62.0	30.42	30.18	S	SE	Mostly cloudy	Overcast	No
2 Hadley Court #2a	2/4/2009	G	24.0	40.0	29.85	29.85	46.5	52.6	29.85	29.85	S	NW	Sunny	Sunny	Yes
2 Hadley Court #2a	2/4/2009	1	24.0	40.0	29.85	29.85	51.6	54.6	29.85	29.85	S	NW	Sunny	Sunny	Yes
2 Hadley Court #2c	2/4/2009	G	24.0	40.0	29.85	29.85	32.7	58.2	29.85	29.86	S	NW	Sunny	Sunny	Yes
2 Hadley Court #2c	2/4/2009	1	24.0	40.0	29.85	29.85	48.0	61.7	29.85	29.85	S	NW	Sunny	Sunny	Yes
12-14 Knowlton Street	1/19/2009	1	44.9	38.1	29.53	29.53	58.5	64.7	29.53	29.53	NW	None	Sunny	Clear	Yes
12-14 Knowlton Street	1/19/2009	B	44.9	38.1	29.53	29.53	52.7	57.8	29.53	29.54	NW	None	Sunny	Clear	Yes
23 Knowlton Street	1/15/2009	1	18.0	19.6	30.45	30.42	59.0	67.1	30.48	30.39	Calm	Calm	Overcast	Overcast	No
23 Knowlton Street	1/15/2009	B	18.0	19.6	30.45	30.42	53.0	57.5	30.45	30.42	Calm	Calm	Overcast	Overcast	No
31-33 Knowlton Street	1/19/2009	1A	46.7	55.3	29.51	29.55	76.7	70.5	29.61	29.55	NW	NW	Sunny	Sunny	Yes
31-33 Knowlton Street	1/19/2009	1B	46.7	55.3	29.51	29.55	76.7	70.5	29.61	29.55	NW	NW	Sunny	Sunny	Yes
31-33 Knowlton Street	1/19/2009	B1	46.7	55.3	29.51	29.55	66.8	66.7	29.61	29.55	NW	NW	Sunny	Sunny	Yes
31-33 Knowlton Street	1/19/2009	B2	46.7	55.3	29.51	29.55	66.8	66.7	29.61	29.55	NW	NW	Sunny	Sunny	Yes
32 Knowlton Street	10/30/2008	B	45.8	44.6	30.10	30.18	61.7	62.4	30.12	30.19	Calm	S	Sunny	Sunny, Breezy	No
32 Knowlton Street	10/30/2008	1	45.8	44.6	30.10	30.18	60.4	63.3	30.12	30.18	Calm	S	Sunny	Sunny, Breezy	No

General Notes:

- °F = degrees Fahrenheit.
- in. Hg = inches of mercury.
- Temperatures were measured in the field using a hand-held thermometer.
- Barometric pressures were measured in the field with a Sensor Instrument Nimbus Trademark digital barometer.
- Samples were collected on the first floor at the commercial buildings located at 163 Glen Street, and 85 Washington Street.
- Samples designated 1A & 1B, and B1 & B2 were collected as field duplicates.
- Samples were collected on the first floor (1) and garage (G) at 2A and 2C Hadley Court.
- For 85 Washington Street samples, PARK = indoor parking area, and AUDI = auditorium.

Table 3-2

Summary of Meteorological Data During Indoor Air Sampling Events
Residential and Commercial Properties
50 Tufts Street
Somerville, Massachusetts

Sample Location	Sample Date	Sample ID	Outside Temperature (°F) ^{1,3}		Outside Barometric Pressure (in. Hg) ^{2,4}		Inside Temperature (°F) ^{1,3}		Inside Barometric Pressure (in. Hg) ^{2,4}		Prevailing Wind Direction		General Weather Conditions		Significant precipitation within 12 hours prior to Sampling?
			Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	
32 Knowlton Street	1/16/2009	B	15	19	30.33	30.29	51	51	30.31	30.31	E	E	Clear, Sunny	Clear, Sunny	No
32 Knowlton Street	1/16/2009	1	15	19	30.33	30.29	65	64	30.31	30.31	E	E	Clear, Sunny	Clear, Sunny	No
35-37 Knowlton Street	3/5/2009	1	32	55	30.39	30.30	73	70	30.37	30.30	SE	SE	Sunny	Sunny	No
35-37 Knowlton Street	3/5/2009	B	32	55	30.39	30.30	59	58	30.38	30.30	SE	SE	Sunny	Sunny	No
4 Morton Street	3/7/2009	1	51	57	29.96	29.95	71	72	29.96	29.95	N	N	Sunny	Sunny	No
4 Morton Street	3/7/2009	B	51	57	29.96	29.95	66	67	29.96	29.95	N	N	Sunny	Sunny	No
7 Morton Street	1/15/2009	1	18.0	19.6	30.45	30.42	58.2	59.5	30.42	30.42	Calm	Calm	Overcast	Overcast	No
7 Morton Street	1/15/2009	B	18.0	19.6	30.45	30.42	58.4	56.7	30.42	30.42	Calm	Calm	Overcast	Overcast	No
10 Morton Street	4/3/2009	1	46	48	29.66	29.39	67	67	29.66	29.39	N	N	Cloudy	Rain	No
10 Morton Street	4/3/2009	B	46	48	29.66	29.39	63	64	29.66	29.39	N	N	Cloudy	Rain	No
11 Morton Street	10/23/2008	1	41.9	51.2	30.57	30.53	69.4	70.3	30.57	30.51	N	N	Sunny	Sunny	No
11 Morton Street	10/23/2008	B	41.9	51.2	30.57	30.53	61.5	61.1	30.57	30.52	N	N	Sunny	Sunny	No
11 Morton Street	1/21/2009	1A	29	31	29.76	29.71	65	65	29.75	29.71	E	E	Sunny	Partly cloudy	No
11 Morton Street	1/21/2009	1B	29	31	29.76	29.71	65	65	29.75	29.71	E	E	Sunny	Partly cloudy	No
11 Morton Street	1/21/2009	B1	29	31	29.76	29.71	60	61	29.75	29.71	E	E	Sunny	Partly cloudy	No
11 Morton Street	1/21/2009	B2	29	31	29.76	29.71	60	61	29.75	29.71	E	E	Sunny	Partly cloudy	No
12 Morton Street	4/3/2009	B	45	48	29.71	29.50	62	62	29.71	29.51	N	N	Cloudy	Rain	No
12 Morton Street	4/3/2009	1	45	48	29.71	29.50	70	71	29.71	29.51	N	N	Cloudy	Rain	No
13 Morton Street	1/21/2009	1A	29	32	29.76	29.71	63	66	29.76	29.71	E	E	Sunny	Partly cloudy	No
13 Morton Street	1/21/2009	1B	29	32	29.76	29.71	63	66	29.76	29.71	E	E	Sunny	Partly cloudy	No
13 Morton Street	1/21/2009	B1	29	31	29.76	29.71	65	63	29.75	29.71	E	E	Sunny	Partly cloudy	No
13 Morton Street	1/21/2009	B2	29	31	29.76	29.71	65	63	29.76	29.71	E	E	Sunny	Partly cloudy	No
15 Morton Street	12/23/2008	1	16.6	31.1	30.49	30.52	63.0	63.3	30.49	30.49	S	S	Sunny	Sunny	No
15 Morton Street	12/23/2008	B	16.6	31.1	30.49	30.52	55.7	51.8	30.49	30.48	S	S	Sunny	Sunny	No
18 Morton Street	1/17/2009	1B	19	18	30.65	30.64	62	63	30.62	30.63	S	S	Partly cloudy	Partly cloudy	No
18 Morton Street	1/17/2009	B1	19	18	30.65	30.64	56	56	30.65	30.63	S	S	Partly cloudy	Partly cloudy	No
18 Morton Street	1/17/2009	B2	19	18	30.65	30.64	56	56	30.65	30.63	S	S	Partly cloudy	Partly cloudy	No
18 Morton Street	1/17/2009	1A	19	18	30.65	30.64	62	63	30.62	30.63	S	S	Partly cloudy	Partly cloudy	No
19-19A Morton Street	1/13/2009	1	32.1	35.4	30.37	30.18	58.6	62.6	30.42	30.18	S	SE	Mostly cloudy	Overcast	No
19-19A Morton Street	1/13/2009	B	32.1	35.4	30.37	30.18	51.2	54.1	30.39	30.21	S	SE	Mostly cloudy	Overcast	No

General Notes:

1. °F = degrees Fahrenheit.
2. in. Hg = inches of mercury.
3. Temperatures were measured in the field using a hand-held thermometer.
4. Barometric pressures were measured in the field with a Sensor Instrument Nimbus Trademark digital barometer.
5. Samples were collected on the first floor at the commercial buildings located at 163 Glen Street, and 85 Washington Street.
6. Samples designated 1A & 1B, and B1 & B2 were collected as field duplicates.
7. Samples were collected on the first floor (1) and garage (G) at 2A and 2C Hadley Court.
8. For 85 Washington Street samples, PARK = indoor parking area, and AUDI = auditorium.

Table 3-2
Summary of Meteorological Data During Indoor Air Sampling Events
Residential and Commercial Properties
50 Tufts Street
Somerville, Massachusetts

Sample Location	Sample Date	Sample ID	Outside Temperature (°F) ^{1,3}		Outside Barometric Pressure (in. Hg) ^{2,4}		Inside Temperature (°F) ^{1,3}		Inside Barometric Pressure (in. Hg) ^{2,4}		Prevailing Wind Direction		General Weather Conditions		Significant precipitation within 12 hours prior to Sampling?
			Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	
21 Morton Street	1/13/2009	1	32.1	35.4	30.37	30.18	69.4	61.7	30.48	30.24	S	SE	Mostly cloudy	Overcast	No
21 Morton Street	1/13/2009	B	32.1	35.4	30.37	30.18	54.1	55.0	30.46	30.27	S	SE	Mostly cloudy	Overcast	No
23 Tufts Street	1/14/2009	1A	23.2	21.4	30.18	30.27	69.8	68.7	30.18	30.21	NW	NW	Sunny, Windy	Sunny, Windy	No
23 Tufts Street	1/14/2009	1B	23.2	21.4	30.18	30.27	69.8	68.7	30.18	30.21	NW	NW	Sunny, Windy	Sunny, Windy	No
23 Tufts Street	1/14/2009	B1	23.2	21.4	30.18	30.27	73.0	72.1	30.18	30.24	NW	NW	Sunny, Windy	Sunny, Windy	No
23 Tufts Street	1/14/2009	B2	23.2	21.4	30.18	30.27	73.0	72.1	30.18	30.24	NW	NW	Sunny, Windy	Sunny, Windy	No
27 Tufts Street	2/25/2009	1	34	36	30.35	30.30	67	66	30.35	30.30	N	W	Overcast	Clear	No
27 Tufts Street	2/25/2009	B	34	36	30.35	30.30	60.6	60.6	30.35	30.30	N	W	Overcast	Clear	No
27 Tufts Street	3/4/2009	1	50	60	30.22	30.13	66.7	68.0	30.22	30.13	S	S	Sunny	Sunny	No
27 Tufts Street	3/4/2009	B	50	60	30.22	30.13	56.4	62	30.23	30.13	S	S	Sunny	Sunny	No
27 Tufts Street	2/4/2009	1A	24.0	31.4	29.85	29.86	62.8	63.4	29.86	29.85	S	NW	Sunny	Sunny	Yes
27 Tufts Street	2/4/2009	1B	24.0	31.4	29.85	29.86	62.8	63.4	29.86	29.85	S	NW	Sunny	Sunny	Yes
27 Tufts Street	2/4/2009	B1	24.0	31.4	29.85	29.86	61.3	58.7	29.87	29.85	S	NW	Sunny	Sunny	Yes
27 Tufts Street	2/4/2009	B2	24.0	31.4	29.85	29.86	61.3	58.7	29.87	29.85	S	NW	Sunny	Sunny	Yes
45-47 Tufts Street, Unit 4	10/7/2008	1	50.9	67.6	30.22	30.13	62.4	66.2	30.21	30.13	SE	SE	Sunny, Breezy	Sunny, Breezy	No
45-47 Tufts Street, Unit 4	10/7/2008	B	50.9	67.6	30.22	30.13	61.8	61.8	30.21	30.13	SE	SE	Sunny, Breezy	Sunny, Breezy	No
45-47 Tufts Street, Unit 1	12/11/2008	1	38.1	37.4	30.02	29.98	55.9	54.6	30.01	30.00	S	S	Rain	Rain	Yes
45-47 Tufts Street, Unit 1	12/11/2008	B	38.1	37.4	30.02	29.98	54.8	54.3	30.02	29.99	S	S	Rain	Rain	Yes
45-47 Tufts Street, Unit 4	1/16/2009	1	15	19	30.33	30.29	70	67	30.33	30.28	E	E	Clear and sunny	Clear and sunny	No
45-47 Tufts Street, Unit 4	1/16/2009	B	15	19	30.33	30.29	56	48	30.33	30.33	E	E	Clear and sunny	Clear and sunny	No
49 Tufts Street	2/19/2009	1	45.4	56.2	29.23	29.20	62.6	66.0	29.23	29.22	Calm	SE	Cloudy	Partly cloudy	Yes
49 Tufts Street	2/19/2009	B	45.4	56.2	29.23	29.20	58.5	60.3	29.23	29.22	Calm	SE	Cloudy	Partly Cloudy	Yes
51-51a Tufts Street	12/11/2008	1	38.1	37.4	30.02	29.98	63.6	62.6	30.02	29.98	S	S	Rain	Rain	Yes
51-51a Tufts Street	12/11/2008	B	38.1	37.4	30.02	29.98	62.4	62.6	30.02	29.98	S	S	Rain	Rain	Yes
60 Tufts Street, Unit 5	3/5/2009	1	32	57	30.39	30.33	72	70	30.35	30.35	SE	SE	Sunny	Sunny	No
85 Washington Street	2/4/2009	PARK	24.0	31.0	29.85	29.87	48.0	48.3	29.87	29.87	S	NW	Sunny	Sunny	Yes
85 Washington Street	2/4/2009	AUDI	24.0	31.0	29.85	29.87	57.1	57.3	29.87	29.87	S	NW	Sunny	Sunny	Yes
105-107 Washington	2/20/2009	1	34.2	29.5	29.46	29.46	69.4	69.2	29.45	29.48	SE	E	Cloudy	Snow flurries	Yes
105-107 Washington	2/20/2009	B	34.2	29.5	29.46	29.46	60.0	63.3	29.45	29.49	SE	E	Cloudy	Snow flurries	Yes

General Notes:

1. °F = degrees Fahrenheit.
2. in. Hg = inches of mercury.
3. Temperatures were measured in the field using a hand-held thermometer.
4. Barometric pressures were measured in the field with a Sensor Instrument Nimbus Trademark digital barometer.
5. Samples were collected on the first floor at the commercial buildings located at 163 Glen Street, and 85 Washington Street.
6. Samples designated 1A & 1B, and B1 & B2 were collected as field duplicates.
7. Samples were collected on the first floor (1) and garage (G) at 2A and 2C Hadley Court.
8. For 85 Washington Street samples, PARK = indoor parking area, and AUDI = auditorium.

Table 3-3a

Chemical Testing Results - Indoor Air
12 Alston Street
Somerville, Massachusetts

12 Alston Street - No Indoor Air Sampling

Table 3-3b

Chemical Testing Results - Sub-Slab Soil Vapor

12 Alston Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Units:		12 Alston Street			
		12Alst-SS1 4/19/2007		12Alst-SS2 4/19/2007	
		µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method				
Volatile Organic Compounds (VOCs) Tetrachloroethylene (PCE)	TO-15	54	7.9	27	4.0

General Notes:

- 1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
- 2. µg/m³ = micrograms per cubic meter.
- 3. ppbv = parts per billion by volume.

Table 3-4a

Chemical Testing Results - Indoor Air
16-20 Alston Street
Somerville, Massachusetts

Sample Location:			16-20 Alston Street			
Sample Name:			16ALST-1		16ALST-B	
Sample Date:			8/10/2007		8/10/2007	
Units:			µg/m³	ppbv	µg/m³	ppbv
Analyte	Method					
Volatile Organic Compounds (VOCs)	TO-15					
Carbon tetrachloride			0.61 J	0.097 J	0.82 J	0.13 J
Tetrachloroethylene (PCE)			0.95 J	0.14 J	1.6	0.23
1,1,1-Trichloroethane (TCA)			4.8	0.88	0.60 J	0.11 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-4b

Chemical Testing Results - Sub-Slab Soil Vapor

16-20 Alston Street

Somerville, Massachusetts

Sample Location:		16-20 Alston Street	
Sample Name:		20AL-SS1	
Sample Date:		6/26/2007	
Analyte	Method	µg/m ³	ppbv
Volatiles Organic Compounds (VOCs) Tetrachloroethylene (PCE) 1,1,1-Trichloroethane (TCA)	TO-15	72.6	10.7
		5.1	0.93

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 3-5a
Chemical Testing Results - Indoor Air
30-40 Alston Street
Somerville, Massachusetts

Analyte		Sample Location: Sample Name: Sample Date:		30-40 Alston Street					
				32 Alston-1 2/14/07		40 Alston-1 2/14/07		40ALST-COST 11/1/07	
				µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Method		Units:							
Volatile Organic Compounds (VOCs)		TO-15							
Carbon tetrachloride				< 1.3	< 0.20	< 1.3	< 0.20	0.62J	0.099 J
Tetrachloroethylene (PCE)				7.5	1.1	4.3	0.63	1.3 J	0.19 J
Trichloroethylene (TCE)				0.70 J	0.13 J	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

- 1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
- 2. µg/m³ = micrograms per cubic meter.
- 3. ppbv = parts per billion by volume.
- 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
- 5. The sample ID "32 Alston-1" on February 14, 2007, and ending with "-COST" on other dates were from the costume manufacturer.
- 6. The sample ID "40 Alston-1" on February 14, 2007, and ending with "-COST" on other dates were from the costume manufacturer.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-5a
Chemical Testing Results - Indoor Air
30-40 Alston Street
Somerville, Massachusetts

Analyte		Sample Location: Sample Name: Sample Date:		30-40 Alston Street (Continued)					
				40ALST-FLAG 11/1/07		30ALST-COST 2/12/08		30ALST-FLAG 2/12/08	
				µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)		Method TO-15							
Carbon tetrachloride				0.69 J	0.11 J	0.58 J	0.092 J	< 1.3	< 0.20
Tetrachloroethylene (PCE)				< 1.4	< 0.20	18	2.7	4.3	0.63
Trichloroethylene (TCE)				< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

- 1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
- 2. µg/m³ = micrograms per cubic meter.
- 3. ppbv = parts per billion by volume.
- 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
- 5. The sample ID "32 Alston-1" on February 14, 2007, and ending with "-COST" on other dates were from the costume manufacturer.
- 6. The sample ID "40 Alston-1" on February 14, 2007, and ending with "-COST" on other dates were from the costume manufacturer.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-5b

Chemical Testing Results - Sub-Slab Soil Vapor

30-40 Alston Street

Somerville, Massachusetts

Analyte		Sample Location: Sample Name: Sample Date: Units:		30-40 Alston Street			
				40 ALSTON-SS1 3/8/2007		40 ALSTON-SS2 3/8/2007	
				40 ALSTON-SS3 3/8/2007		40 ALSTON-SS3 3/8/2007	
				µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)		Method TO-15					
Tetrachloroethylene (PCE)				2.8	0.42	< 1.4	2.4
1,1,1-Trichloroethane (TCA)				2.3	0.42	25	19
							0.36
							3.5

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-5b

Chemical Testing Results - Sub-Slab Soil Vapor

30-40 Alston Street

Somerville, Massachusetts

Analyte		Sample Location:		30-40 Alston Street (continued)					
		Sample Name:		40 ALSTON-SS4		30 ALSTON-SS5			
		Sample Date:		3/8/2007		3/8/2007			
		Units:		μg/m ³	ppbv	μg/m ³	ppbv		
Method									
Volatile Organic Compounds (VOCs) Tetrachloroethylene (PCE) 1,1,1-Trichloroethane (TCA)	TO-15			9.5	1.4				
				1.4	0.25				
						5.0	0.74	1.7	0.25
						0.93 J	0.17 J	1.0 J	0.19 J

Table 3-6a
Chemical Testing Results - Indoor Air
142 Cross Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Units:		142 Cross Street							
		142Cross-1 11/6/07		142Cross-B 11/6/07		142Cross-1 6/10/08		142Cross-B 6/10/08	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method								
Volatile Organic Compounds (VOCs) Carbon Tetrachloride 1,1,1-Trichloroethane (TCA) Tetrachloroethylene (PCE)	TO-15	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
		< 1.1	< 0.20	< 1.1	< 0.20	0.71 J	0.13 J	0.98 J	0.18 J
		< 1.4	< 0.20	< 1.4	< 0.20	0.68 J	0.10 J	1.1 J	0.16 J

Table 3-6a

Chemical Testing Results - Indoor Air

142 Cross Street

Somerville, Massachusetts

Analyte		Sample Location:		142CROSS-1 1/15/09		142CROSS-B 1/15/09	
		Sample Name:		µg/m ³		µg/m ³	
		Sample Date:		ppbv		ppbv	
Units:		Method					
Volatile Organic Compounds (VOCs)		TO-15					
Carbon Tetrachloride				< 1.3		0.59 J	
1,1,1-Trichloroethane (TCA)				< 1.1		< 1.1	
Tetrachloroethylene (PCE)				< 1.4		< 1.4	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-6b

Chemical Testing Results - Sub-Slab Soil Vapor

142 Cross Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Units:		142 Cross Street			
		142 Cro-SS1 4/18/07		142 Cro-SS2 4/18/07	
		µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method TO-15				
		Volatile Organic Compounds (VOCs)			
		Carbon tetrachloride			
		1,1,1-Trichloroethane (TCA)			
Tetrachloroethylene (PCE)		0.69 J 1.2 6.4	0.11 J 0.22 0.95	< 1.3 1.7 3.5	< 0.20 0.32 0.52

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-7a

Chemical Testing Results - Indoor Air Samples

6 Dell Street
Somerville, Massachusetts

Analyte	Location Name:			
	Sample Name:			
	Sample Date:			
	Units:			
Method		6 Dell Street		
TO-15		6 DELL-1 1/23/2007		
Volatile Organic Compounds (VOCs)		6 DELL-B 1/23/2007		
Carbon tetrachloride		µg/m ³	ppbv	µg/m ³
		< 0.60 J	< 0.095 J	< 0.69 J
				ppbv
				< 0.11 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-7b
Chemical Testing Results - Sub-Slab Soil Vapor
6 Dell Street
Somerville, Massachusetts

6 Dell Street - No Sub-Slab Sampling

Chemical Testing Results - Indoor Air Samples

Somerville, Massachusetts

General Notes:

- ### Qualifying Note:

GEI Consultants, Inc.

Table 3-8b

Chemical Testing Results - Sub-Slab Soil Vapor
9 Dell Street
Somerville, Massachusetts

9 Dell Street - No Sub-Slab Sampling

Table 3-9a
Chemical Testing Results - Indoor Air Samples
 10 Dell Street
 Somerville, Massachusetts

Analyte	Location Name:		10 Dell Street	
	Sample Name:		10 DELL-1	
	Sample Date:		1/22/2007	
	Units:		10 DELL-B 1/22/2007	
Volatile Organic Compounds (VOCs) Carbon tetrachloride	Method			
	TO-15			
		$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$
				ppbv
		< 1.3	< 0.20	< 0.63 J
				< 0.10 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-9b

**Chemical Testing Results - Sub-Slab Soil Vapor
10 Dell Street
Somerville, Massachusetts**

10 Dell Street - No Sub-Slab Sampling

Table 3-10a

Chemical Testing Results - Indoor Air Samples

14 Dell Street
Somerville, Massachusetts

Location Name:		14 Dell Street			
Sample Name:		14 DELL-1		14 DELL-B	
Sample Date:		1/22/2007		1/22/2007	
Analyte	Method	Units:			
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	ppbv
		< 0.82 J	< 0.13 J	< 0.82 J	< 0.13 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-10b
Chemical Testing Results - Sub-Slab Soil Vapor
14 Dell Street
Somerville, Massachusetts

14 Dell Street - No Sub-Slab Sampling

Table 3-11a
Chemical Testing Results - Indoor Air Samples
16 Dell Street
Somerville, Massachusetts

Analyte	Location Name:	
	Sample Name:	
	Sample Date:	
	Units:	
Volatile Organic Compounds (VOCs) Carbon tetrachloride	Method	
	TO-15	

16 Dell Street			
16 DELL-1		16 DELL-B	
1/22/2007		1/22/2007	
µg/m ³	ppbv	µg/m ³	ppbv
< 0.75 J	< 0.12 J	< 0.63 J	< 0.10 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-11b
Chemical Testing Results - Sub-Slab Soil Vapor
16 Dell Street
Somerville, Massachusetts

16 Dell Street - No Sub-Slab Sampling

Table 3-12a

Chemical Testing Results - Indoor Air

22 Dell Street

Somerville, Massachusetts

22 Dell Street - All analytes non-detect on 1/22/07

Table 3-12b

Chemical Testing Results - Sub-Slab Soil Vapor

22 Dell Street

Somerville, Massachusetts

22 Dell Street - No Sub-Slab Sampling

Table 3-13a
 Chemical Testing Results - Indoor Air
 74 Franklin Street
 Somerville, Massachusetts

Analyte		Sample Location: Sample Name: Sample Date:		74 Franklin Street					
				74FRAN-1 9/19/07		74FRAN-B 9/19/07		74FRAN-1 2/7/08	
				µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs) Carbon tetrachloride Dichloroethane, 1,2-		Units:							
		Method							
		TO-15							
		0.58 J < 0.81		0.092 J < 0.20		< 1.3 < 0.81		0.63 J 0.49 J	
						< 0.20 < 0.20		0.10 J 0.12 J	

Table 3-13a

Chemical Testing Results - Indoor Air
74 Franklin Street
Somerville, Massachusetts

Analyte		Sample Location: Sample Name: Sample Date: Units:		74 Franklin Street (continued)					
				74FRAN-B 2/7/08		74FRAN-1 6/19/08		74FRAN-B 6/19/08	
				µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
				Method		Method		Method	
Volatile Organic Compounds (VOCs)		TO-15							
Carbon tetrachloride				0.60 J < 0.81		0.69 J 0.49 J		0.062 J < 0.81	
Dichloroethane, 1,2-									

General Notes:

- 1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
- 2. µg/m³ = micrograms per cubic meter.
- 3. ppbv = parts per billion by volume.
- 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-13b

Chemical Testing Results - Sub-Slab Soil Vapor

74 Franklin Street
Somerville, Massachusetts

Sample Location:		74 Franklin Street	
Sample Name:		74FRANK-SS1	
Sample Date:		7/2/07	
Analyte	Method	Units:	
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		µg/m ³	ppbv
1,1,1-Trichloroethane (TCA)		2.8 0.60 J	0.41 0.11 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-14a

Chemical Testing Results - Indoor Air
76 Franklin Street
Somerville, Massachusetts

Analyte		76 Franklin Street					
		Sample Location:		76FRAN-1		76FRAN-B	
		Sample Name:		11/5/07		11/5/07	
		Sample Date:		11/5/07		11/5/07	
		Units:		ppbv		ppbv	
		Method		µg/m ³		µg/m ³	
Volatile Organic Compounds (VOCs)		TO-15					
Carbon tetrachloride				0.62 J		< 1.3	
Tetrachloroethylene (PCE)				1.4		< 1.4	
				0.099 J		< 0.20	
				0.2		< 0.20	
						0.62 J	
						< 1.4	
						0.98 J	
						< 0.20	

General Notes:

- 1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
- 2. µg/m³ = micrograms per cubic meter.
- 3. ppbv = parts per billion by volume.
- 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The report result is estimated.

Table 3-14a

Chemical Testing Results - Indoor Air

76 Franklin Street

Somerville, Massachusetts

Analyte		76 Franklin Street (continued)									
		Sample Location:		76FRAN-B		76FRAN-1		76FRAN-B			
		Sample Name:		2/11/08		6/24/08		6/24/08			
		Sample Date:		ppbv		ppbv		ppbv			
		Units:		µg/m ³		µg/m ³		µg/m ³		ppbv	
		Method									
Volatile Organic Compounds (VOCs) Carbon tetrachloride Tetrachloroethylene (PCE)		TO-15		0.63 J, J+		0.10 J, J+		< 1.3		< 0.20	
				< 1.4 J+		< 0.20 J+		< 1.4		< 0.20	

Table3-14b

Chemical Testing Results - Sub-Slab Soil Vapor
76 Franklin Street
Somerville, Massachusetts

Sample Location:		76 Franklin Street	
Sample Name:		76 Fran-SS1	
Sample Date:		4/3/07	
Units:			
Analyte	Method	µg/m³	ppbv
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		5.2	0.76
1,1,1-Trichloroethane (TCA)		0.82 J	0.15 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-15a
Chemical Testing Results - Indoor Air
80 Franklin Street
Somerville, Massachusetts

Analyte		Sample Location: Sample Name: Sample Date: Units: Method		80 Franklin Street			
				80FRAN-1 9/17/07		80FRAN-B 9/17/07	
				80FRAN-1 9/17/07		80FRAN-B 9/17/07	
				µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)		TO-15		0.59 J		0.57 J	
Carbon tetrachloride				0.093 J		0.091 J	
						< 1.3	
						< 0.20	

- General Notes:**
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
 2. µg/m³ = micrograms per cubic meter.
 3. ppbv = parts per billion by volume.
 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:
J The reported result is below the laboratory reporting limit and is estimated.

Table 3-15a
Chemical Testing Results - Indoor Air
80 Franklin Street
Somerville, Massachusetts

Analyte		80 Franklin Street (continued)					
		Sample Location:		80FRANK-B		80FRANK-1	
		Sample Name:		1/31/08		6/13/08	
		Sample Date:				6/13/08	
		Units:					
		Method					
Volatile Organic Compounds (VOCs)		TO-15					
Carbon tetrachloride							
				µg/m ³		µg/m ³	
				ppbv		ppbv	
				< 1.3		0.69 J	
				< 0.20		0.24	
						µg/m ³	
						ppbv	
						0.11 J	
						ppbv	

- General Notes:**
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
 2. µg/m³ = micrograms per cubic meter.
 3. ppbv = parts per billion by volume.
 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:
J The reported result is below the laboratory reporting limit and is estimated.

Table 3-15b

Chemical Testing Results - Sub-Slab Soil Vapor

80 Franklin Street
Somerville, Massachusetts

Sample Location:		80 Franklin Street	
Sample Name:		80FRANK-SS1	
Sample Date:		6/20/07	
Analyte	Method	Units:	
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		µg/m ³	ppbv
		1.7	0.25

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 3-16a

Chemical Testing Results - Indoor Air

82 Franklin Street
Somerville, Massachusetts

Analyte		82 Franklin Street					
		Sample Location:		82FRAN-1		82FRAN-B	
		Sample Name:	Sample Date:	11/29/07	ppbv	11/29/07	3/6/08
		Units:		µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)		Method					
Carbon tetrachloride		TO-15					
1,2-Dichloroethane				< 1.3 2.6	< 0.20 0.64	< 1.3 2.6	< 0.20 0.64 1.1

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-16a

Chemical Testing Results - Indoor Air

82 Franklin Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		82 Franklin Street (continued)					
		82FRANK-B 3/6/08		82FRAN-1 6/23/08		82FRAN-B 6/23/08	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:					
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride							
1,2-Dichloroethane							
		< 1.3 2.7	< 0.20 0.67	0.59 J 23	0.094 J 5.8	0.69 J 15	0.11 J 3.7

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-16b

Chemical Testing Results - Sub-Slab Soil Vapor

82 Franklin Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Units:		82 Franklin Street			
Analyte		82 FRANK-SS1 3/26/07		82 FRANK-SS2 3/26/07	
Method		µg/m³		ppbv	
Volatile Organic Compounds (VOCs)		0.60 J 1.2 J		0.096 J 0.17 J	
Carbon tetrachloride				< 1.3	
Tetrachloroethylene (PCE)				< 1.4	
				ppbv	
				< 0.20	
				< 0.20	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-17a

Chemical Testing Results - Indoor Air

86 Franklin Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		86 Franklin Street									
		86 FRAN-1 6/5/07		86FRANK-1 11/12/07		86FRANK-B 11/12/07		86FRANK-1 2/4/08		86FRANK-B 2/4/08	
		µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
		Units:									
Analyte		Method									
Volatile Organic Compounds (VOCs) Carbon tetrachloride 1,1,1-Trichloroethane (TCA)		TO-15									
		0.88 J < 1.1		0.14 J < 0.20		0.60 J < 1.1		0.095 J < 0.20		0.58 J 0.76 J	
										0.092 J 0.14 J	

Table 3-17b

Chemical Testing Results - Sub-Slab Soil Vapor

86 Franklin Street
Somerville, Massachusetts

Sample Location:		86 Franklin Street	
Sample Name:		86 Frank-SG2	
Sample Date:		4/25/07	
Analyte	Method	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)			
Carbon tetrachloride	TO-15	0.94 J	0.15 J
Tetrachloroethylene (PCE)		57	8.4
1,1,1-Trichloroethane (TCA)		1.9	0.34
Trichloroethylene (TCE)		1.6	0.29

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-18a

Chemical Testing Results - Indoor Air
91-93 Franklin Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		91-93 Franklin Street			
		93 Franklin-1 2/14/07		93 Franklin-B 2/14/07	
		µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method				
Volatile Organic Compounds (VOCs) Tetrachloroethylene (PCE)	TO-15	0.95 J	0.14 J	3.5	0.52

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-18b

Chemical Testing Results - Sub-Slab Soil Vapor

91-93 Franklin Street
Somerville, Massachusetts

Sample Location:		91-93 Franklin Street	
Sample Name:		91 FRANK-SG1A	
Sample Date:		3/20/07	
Units:		μg/m³	
Analyte	Method	ppbv	
Volatile Organic Compounds (VOCs)	TO-15		
Dichloroethane, 1,1-		13	3.1
Tetrachloroethylene (PCE)		642	94.6
Trichloroethane, 1,1,1- (TCA)		15	2.8
Trichloroethylene (TCE)		40	7.4

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 3-18c

Chemical Testing Results - Post-EPEM Installation Indoor Air

**91-93 Franklin Street
Somerville, Massachusetts**

91-93 Franklin Street - All analytes non-detect 4/8/09

Table 3-19a

Chemical Testing Results - Indoor Air
95 Franklin Street
Somerville, Massachusetts

95 Franklin Street - All Indoor Air Sampling Confirmatory (Post-EPEM Installation)

Table 3-19b
Chemical Testing Results - Sub-Slab Soil Vapor
95 Franklin Street
Somerville, Massachusetts

Sample Location:		95 Franklin Street
Sample Name:		95 Frank-SS2
Sample Date:		4/19/07
Analyte	Method	Units:
Volatile Organic Compounds (VOCs)	TO-15	$\mu\text{g}/\text{m}^3$
Carbon tetrachloride		0.63 J
1,1-Dichloroethane		133
1,1-Dichloroethylene		90.8
trans-1,2-Dichloroethylene		4.4
cis-1,2-Dichloroethylene		161
Tetrachloroethylene (PCE)		15500
1,1,1-Trichloroethane (TCA)		234
Trichloroethylene (TCE)		447
Vinyl chloride		1.3
		ppbv
		0.10 J
		32.9
		22.9
		1.1
		40.6
		2290
		42.9
		83.1
		0.50

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-19c

Chemical Testing Results - Post-EPEM Installation Indoor Air
95 Franklin Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:			95 Franklin Street			
			95FRAN-1 6/7/07		95FRAN-B1 6/7/07	
Analyte	Units:	Method	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs) Carbon tetrachloride Tetrachloroethylene (PCE)		TO-15	0.63 J 8.8	0.10 J 1.3	0.69 J 8.1	0.11 J 1.2

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-20a
 Chemical Testing Results - Indoor Air
 95R Franklin Street
 Somerville, Massachusetts

Analyte		Sample Location: Sample Name: Sample Date:		Units:		95R Franklin Street													
						Method		95R Fran-1		95R Fran-B		95RFRANK-1		95RFRANK-CR					
								4/18/07		4/18/07		6/5/07		6/5/07					
								µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv				
Volatile Organic Compounds (VOCs)		TO-15		0.75 J < 1.1 35 1.1		0.12 J < 0.20 5.1 0.20		< 1.3 0.98 J 106 2.7		< 0.20 0.18 J 15.6 0.51		0.88 J < 1.1 19 0.75 J		0.14 J < 0.20 2.8 0.14 J		< 6.3 < 1.1 8.1 < 5.4		< 1.0 < 0.20 1.2 < 1.0	
Carbon tetrachloride																			
1,1,1-Trichloroethane (TCA)																			
Tetrachloroethylene (PCE)																			
Trichloroethylene (TCE)																			

Table 3-20b

Chemical Testing Results - Sub-Slab Soil Vapor

95R Franklin Street
Somerville, Massachusetts

Sample Location:		95R Franklin Street	
Sample Name:		95R FRANK-SS2	
Sample Date:		3/21/07	
Analyte	Method	Units:	
Volatile Organic Compounds (VOCs)	TO-15		
Dichloroethane, 1,1-			
Dichloroethylene, cis-1,2-			
Dichloroethylene, 1,1-			
Tetrachloroethylene (PCE)			
Trichloroethane, 1,1,1- (TCA)			
Trichloroethylene (TCE)			
		µg/m ³	ppbv
		793	196
		504	127
		932	235
		108000	15900
		1300	239
		4970	924

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 3-20c

Chemical Testing Results - Post-EPEM Installation Indoor Air
95R Franklin Street
Somerville, Massachusetts

Analyte		Sample Location: Sample Name: Sample Date: Units:		95R Franklin Street					
				95R FRANK-B2 11/15/07		95RFRANK-1 11/15/07		95RFRan-1A 12/23/07	
				µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)		Method TO-15		0.63 J 1.3 J		0.61 J 1.3 J		0.58 J 1.0 J	
Carbon tetrachloride				0.10 J 0.19 J		0.097 J 0.19 J		0.092 J 0.15 J	
Tetrachloroethylene (PCE)								< 1.3 < 1.4	
								< 0.20 < 0.20	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-20c

Chemical Testing Results - Post-EPEM Installation Indoor Air
95R Franklin Street
Somerville, Massachusetts

Analyte		95R Franklin Street (continued)					
		Sample Location:		95R Frank-1		95R Frank-B	
		Sample Name:	Sample Date:	12/28/07	12/28/07	12/28/07	4/3/09
		Units:		µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)		Method					
Carbon tetrachloride		TO-15					
Tetrachloroethylene (PCE)				0.62 J 1.1 J	0.098 J 0.16 J	< 1.3 1.1 J	< 0.20 0.16 J
						< 1.3 < 1.4	< 0.20 < 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-20d
Summary of SSDS Effluent Testing Results, 95R Franklin Street
Residential and Commercial Properties
50 Tufts Street
Somerville, Massachusetts

Sample Location:		95R Franklin Street			
Sample Name:		95RFRANK-CRAWL SUB AIR		95RFRANK-BASE SUB AIR	
Sample Date:		10/29/2007		10/29/2007	
Analyte	Units:	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)					
Carbon tetrachloride	TO-15	0.60 J	0.096 J	< 1.3	< 0.20
1,1-Dichloroethane		< 0.81	< 0.20	48.6	12
1,1-Dichloroethene		< 0.79	< 0.20	33	8.3
cis-1,2-Dichloroethene		< 0.79	< 0.20	85.2	21.5
Tetrachloroethene (PCE)		< 1.4	< 0.20	3100 G	457 G
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	43	7.8
Trichloroethene (TCE)		< 1.1	< 0.20	210	39

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

- J The reported result is below the laboratory reporting limit and is estimated.
- G The report is estimated due to duplicate precision outside control limits.

Table 3-21a

Chemical Testing Results - Indoor Air

97 Franklin Street

Somerville, Massachusetts

Analyte		97 Franklin Street					
		Sample Location:					
		Sample Name:					
		Sample Date:					
		Units:		Method			
Volatile Organic Compounds (VOCs)				TO-15			
Carbon Tetrachloride							
Dichloroethane, 1,2-							
Tetrachloroethylene (PCE)							
		97FRAN-1 9/29/07		97FRAN-B 9/29/07		97FRAN-1 2/21/08	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
		< 1.4	< 0.20	< 1.4	< 0.20	1.0 J	0.15 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-21a
Chemical Testing Results - Indoor Air
97 Franklin Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		97 Franklin Street (continued)					
		97FRAN-1 7/24/08		97FRAN-B 7/24/08		97FRAN-1 1/14/09	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:					
Volatile Organic Compounds (VOCs)	TO-15						
Carbon Tetrachloride		0.69 J	0.11 J	0.69 J	0.11 J	0.75 J	0.12 J
Dichloroethane, 1,2-		11	2.6	0.81	0.20	< 0.81	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	1.3 J	0.19 J	0.81 J	0.12 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-21b
Chemical Testing Results - Sub-Slab Soil Vapor
97 Franklin Street
Somerville, Massachusetts

Sample Location:			97 Franklin Street			
Sample Name:			97FRANK-SS1		97FRANK-SS2	
Sample Date:			6/30/07		6/30/07	
Units:			µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method					
Volatile Organic Compounds (VOCs)	TO-15					
Carbon tetrachloride			0.82 J	0.13 J	< 0.53	< 0.20
Tetrachloroethylene (PCE)			34	5.0	86.8	12.8
1,1,1-Trichloroethane (TCA)			< 1.1	< 0.20	1.5	0.27

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-22a

Chemical Testing Results - Indoor Air

97R Franklin Street
Somerville, Massachusetts

Analyte		97R Franklin Street					
		Sample Location:		97RFRANK-1		97RFRANK-B	
		Sample Name:		6/28/07		6/28/07	
		Sample Date:		6/28/07		11/19/07	
		Units:		ppbv		ppbv	
		Method		µg/m ³		µg/m ³	
Volatile Organic Compounds (VOCs)		TO-15		1.6		1.3	
Carbon tetrachloride				1.1 J		< 0.20	
Tetrachloroethylene (PCE)				< 1.4		< 1.4	
1,1,1-Trichloroethane (TCA)				0.42 J		< 1.1	
				0.077 J		< 0.20	
						< 0.20	
						< 0.20	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-22a

Chemical Testing Results - Indoor Air

97R Franklin Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		97R Franklin Street (continued)					
		97RFRANK-1 2/4/08		97RFRANK-B 2/4/08		97RFRAN-1 6/24/08	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Units:						
	Method						
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-22a
Chemical Testing Results - Indoor Air
97R Franklin Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		97R Franklin Street			
		97RFRAN-1 1/19/09		97RFRAN-B 1/19/09	
		µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:			
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride					
Tetrachloroethylene (PCE)					
1,1,1-Trichloroethane (TCA)					
		< 1.3	< 0.20	< 1.3	< 0.20
		0.68 J	0.10 J	< 1.4	< 0.20
		< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-22b

Chemical Testing Results - Sub-Slab Soil Vapor

97R Franklin Street
Somerville, Massachusetts

Sample Location:		97R Franklin Street
Sample Name:		97R Frank-SS1
Sample Date:		4/27/07
Analyte	Method	Units:
Volatile Organic Compounds (VOCs)	TO-15	
Tetrachloroethylene (PCE)		
		µg/m ³
		ppbv
		60
		8.9

General Notes:

- 1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
- 2. µg/m³ = micrograms per cubic meter.
- 3. ppbv = parts per billion by volume.

Table 3-23a
Chemical Testing Results - Indoor Air
99 Franklin Street
Somerville, Massachusetts

Analyte		Sample Location: Sample Name: Sample Date: Units:		99 Franklin Street			
				99FRANK-B 6/25/07	99FRANK-1 2/5/08	99FRANK-B 2/5/08	
				µg/m ³	µg/m ³	µg/m ³	
				ppbv	ppbv	ppbv	ppbv
Volatile Organic Compounds (VOCs)		Method					
Tetrachloroethylene (PCE)		TO-15		1.4	1.2 J	8.1	1.2

General Notes:

- 1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
- 2. µg/m³ = micrograms per cubic meter.
- 3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Chemical Testing Results - Sub-Slab Soil Vapor

Somerville, Massachusetts

General Notes:

- Qualifying Note:**

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Table 3-24a
Chemical Testing Results - Indoor Air
152-154 Glen Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		152-154 Glen Street					
		152GLEN-1 11/1/07		152GLEN-B 11/1/07		152-154GLEN-1 2/11/08	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:					
Volatile Organic Compounds (VOCs) Carbon tetrachloride 1,2-Dichloroethane Tetrachloroethylene (PCE)	TO-15						
		0.63 J		0.10 J		< 1.3	
		2.8		0.69		< 0.81	
		< 1.4		< 0.20		< 1.4	
				< 0.20		< 0.20	
				< 1.3		< 1.3	
				< 0.81		1.3	
				< 1.4		< 1.4	
				< 0.20		< 0.20	
				< 0.20		< 0.20	
				< 1.3		< 1.3	
				< 0.81		0.32	
				< 1.4		< 0.20	

Table 3-24a
Chemical Testing Results - Indoor Air
152-154 Glen Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Units:		152-154 Glen Street (continued)					
		152-154 GLEN-B 2/11/08		152-154 GLEN-1 6/10/08		152-154 GLEN-B 6/10/08	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method						
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		< 1.3	< 0.20	0.58 J	0.092 J	0.60 J	0.095 J
1,2-Dichloroethane		< 0.81	< 0.20	4.5	1.1	1.0	0.25
Tetrachloroethylene (PCE)		< 1.4	< 0.20	0.88 J	0.13 J	1.2 J	0.17 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-24b

Chemical Testing Results - Sub-Slab Soil Vapor
152-154 Glen Street
Somerville, Massachusetts

Sample Location:		152-154 Glen Street
Sample Name:		154 GLEN-SS1
Sample Date:		2/28/2007
Units:		
Analyte	Method	
Volatile Organic Compounds (VOCs)	TO-15	
Tetrachloroethylene (PCE)		
1,1,1-Trichloroethane (TCA)		
		$\mu\text{g}/\text{m}^3$
		ppbv
		0.88 J
		0.65 J
		0.13 J
		0.12 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-25a
Chemical Testing Results - Indoor Air
153-155 Glen Street
Somerville, Massachusetts

Analyte		153-155 Glen Street			
		Sample Location:		155GLEN-1	
		Sample Name:		155GLEN-B	
		Sample Date:		11/7/07	
		Units:		153-155GLEN-1	
		Method		11/7/07	
Volatile Organic Compounds (VOCs)		TO-15		11/7/07	
Carbon tetrachloride				ppbv	
Tetrachloroethylene (PCE)				μg/m ³	
				μg/m ³	
				0.60 J	
				< 1.4	
				< 0.20	
				< 0.20	
				0.096 J	
				< 0.20	
				μg/m ³	
				ppbv	
				μg/m ³	
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Table 3-25a
Chemical Testing Results - Indoor Air
153-155 Glen Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		153-155 Glen Street (continued)					
		153-155GLEN-B 2/6/08		153GLEN-1 6/6/08		153GLEN-B 6/6/08	
		Units:					
Analyte	Method						
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride							
Tetrachloroethylene (PCE)							
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
		< 1.3 < 1.4	< 0.20 < 0.20	< 1.3 < 1.4	< 0.20 < 0.20	< 1.3 0.66 J	< 0.20 0.097 J

- General Notes:**
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
 2. µg/m³ = micrograms per cubic meter.
 3. ppbv = parts per billion by volume.
 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:
 J The reported result is below the laboratory reporting limit and is estimated.

Table 3-25b

Chemical Testing Results - Sub-Slab Soil Vapor

153-155 Glen Street

Somerville, Massachusetts

Sample Location:			153-155 Glen Street	
Sample Name:			153 GLEN-SS1	153 GLEN-SS2
Sample Date:			3/12/2007	3/12/2007
Analyte	Method	Units:	$\mu\text{g}/\text{m}^3$	ppbv
Volatile Organic Compounds (VOCs)	TO-15			
1,1-Dichloroethane				
Tetrachloroethylene (PCE)				
1,1,1-Trichloroethane (TCA)				
			$\mu\text{g}/\text{m}^3$	ppbv
			0.33 J	< 0.81
			6.0	5.0
			0.51 J	< 1.1
				< 0.20
				0.74
				< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-26a
Chemical Testing Results - Indoor Air
156 Glen Street
Somerville, Massachusetts

<div> <div>Location Name:</div> <div>Sample Name:</div> <div>Sample Date:</div> <div>Units:</div> </div>		156 Glen Street					
		156GLEN-1		156GLEN-B		045163-156GLEN-1	
		5/15/07		5/15/07		9/17/08	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method						
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Tetrachloroethene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20

General Notes:

- Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
- µg/m³ = micrograms per cubic meter.
- ppbv = parts per billion by volume.
- "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-26a
Chemical Testing Results - Indoor Air
156 Glen Street
Somerville, Massachusetts

Location Name:		156 Glen Street (continued)			
Sample Name:		045163-156GLEN-1		045163-156GLEN-B	
Sample Date:		1/13/09		1/13/09	
Units:		µg/m ³	ppbv	µg/m ³	
Analyte	Method			ppbv	
Volatile Organic Compounds (VOCs)	TO-15				
		Carbon tetrachloride	0.63 J	0.10 J	0.69 J
		Dichloroethane, 1,2-	0.38 J	0.095 J	< 0.81
		Tetrachloroethene (PCE)	< 1.4	< 0.20	0.62 J
				0.11 J	
				< 0.20	
				0.091 J	

Table 3-26b

Chemical Testing Results - Sub-Slab Soil Vapor
156 Glen Street
Somerville, Massachusetts

Sample Location:			156 Glen Street
Sample Name:			156 GLEN-SS2
Sample Date:			3/15/2007
Analyte	Units:		ppbv
	Method		
Volatile Organic Compounds (VOCs) 1,1,1-Trichloroethane (TCA)	TO-15		10 1.9

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 3-27a
Chemical Testing Results - Indoor Air
162-164 Glen Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		162-164 Glen Street			
		162GLEN-1 8/13/07		162GLEN-B 8/13/07	
		µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:			
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		0.63 J	0.10 J	0.69 J	0.11 J
1,2-Dichloroethane		0.65 J	0.16 J	2.5	0.61
Tetrachloroethylene (PCE)		2.8	0.41	3.7	0.54
1,1,1-Trichloroethane (TCA)		0.53 J	0.097 J	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Chemical Testing Results - Sub-Slab Soil Vapor

Somerville, Massachusetts

General Notes:

- ### Qualifying Note:

GEI Consultants, Inc.

Table 3-28a

Chemical Testing Results - Indoor Air

163 Glen Street

Somerville, Massachusetts

Analyte		Sample Location: Sample Name: Sample Date:		163 Glen Street					
				163GLEN-1A 11/5/07		163GLEN-1B 11/5/07		163GLEN-1 2/11/08	
				µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)		TO-15							
Carbon tetrachloride				< 1.3		< 0.20		0.59 J	
Tetrachloroethylene (PCE)				1.3 J		0.19 J		< 1.4	
Trichloroethane, 1,1,1- (TCA)				0.87 J		0.16 J		< 1.1	
						0.93 J		< 0.2	
						0.17 J		< 0.2	

Table 3-28a

Chemical Testing Results - Indoor Air
163 Glen Street
Somerville, Massachusetts

Analyte		163 Glen Street (continued)									
		Sample Location:		163GLEN-1A		163GLEN-1B		163GLEN-1A		163GLEN-1B	
		Sample Name:		6/4/08		6/4/08		1/13/09		1/13/09	
		Sample Date:									
Method		Units:		µg/m ³		ppbv		µg/m ³		ppbv	
TO-15											
Volatile Organic Compounds (VOCs)											
Carbon tetrachloride				< 1.3		< 0.20		0.63 J		0.10 J	
Tetrachloroethylene (PCE)				4.0		0.59		3.4		0.14 J	
Trichloroethane, 1,1,1- (TCA)				0.82 J		0.15 J		0.87 J		0.13 J	
								0.62 J		0.098 J	
								0.95 J		0.12 J	
								0.76 J		0.14 J	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. Sampling location 1A is in the auditorium, and 1B is in the lounge.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-28b

Chemical Testing Results - Sub-Slab Soil Vapor

163 Glen Street
Somerville, Massachusetts

Sample Location:		163 Glen Street
Sample Name:		163 Glen-SS1
Sample Date:		4/6/07
Analyte	Method	Units:
Volatiles Organic Compounds (VOCs)	TO-15	
Tetrachloroethylene (PCE)		1.4
		0.21

General Notes:

- 1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
- 2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
- 3. ppbv = parts per billion by volume.

Table 3-29a
Chemical Testing Results - Indoor Air
166-168 Glen Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Units:		166-168 Glen Street		
		045162-166GLEN-1 9/7/07		045162-166GLEN-1 9/7/07
		µg/m ³	ppbv	µg/m ³
		Method TO-15		ppbv
Analyte	Volatile Organic Compounds (VOCs)			
	Carbon tetrachloride			
	Tetrachloroethylene (PCE)			
	1,1,1-Trichloroethane (TCA)			
		0.88 J 5.0 0.47 J	0.14 J 0.74 0.087 J	0.75 J 4.1 0.65J
				0.12 J 0.61 0.12 J

General Notes:

- 1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
- 2. µg/m³ = micrograms per cubic meter.
- 3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-29b

Chemical Testing Results - Sub-Slab Soil Vapor

166-168 Glen Street

Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		166-168 Glen Street			
		168GLEN-SS1 5/30/2007		168GLEN-SS2 5/30/2007	
		µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:			
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		0.82 J	0.13 J	< 1.3	< 0.20
1,1-Dichloroethylene		< 0.79	< 0.20	0.52 J	0.13 J
Tetrachloroethylene (PCE)		10 G	1.5 G	271	39.9
1,1,1-Trichloroethane (TCA)		0.55 J	0.10 J	7.6	1.4
Trichloroethylene (TCE)		0.86 J	0.16 J	9.7	1.8

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

- G The report is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-30a

Chemical Testing Results - Indoor Air

2 Hadley Court #2a

Somerville, Massachusetts

2 Hadley Court #2a									
Sample Location:		2A HAD-1		2A HAD-G		2HADDA-1		2HADDA-G	
Sample Name:		9/5/07		9/5/07		3/7/08		3/7/08	
Sample Date:		9/5/07		9/5/07		3/7/08		3/7/08	
Units:		µg/m ³		ppbv		µg/m ³		ppbv	
Method		µg/m ³		ppbv		µg/m ³		ppbv	
Analyte		µg/m ³		ppbv		µg/m ³		ppbv	
Volatile Organic Compounds (VOCs)	TO-15	µg/m ³		ppbv		µg/m ³		ppbv	
		µg/m ³		ppbv		µg/m ³		ppbv	
1,1,1-Trichloroethane (TCA)		µg/m ³		ppbv		µg/m ³		ppbv	
Tetrachloroethylene (PCE)		µg/m ³		ppbv		µg/m ³		ppbv	

Table 3-30a

Chemical Testing Results - Indoor Air

2 Hadley Court #2a

Somerville, Massachusetts

Analyte		2 Hadley Court #2a (continued)					
		Sample Location:		2AHAD-1		2AHAD-G	
		Sample Name:		6/6/08		6/6/08	
		Sample Date:		ppbv		ppbv	
		Units:		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		Method					
Volatile Organic Compounds (VOCs)		TO-15					
1,1,1-Trichloroethane (TCA)				0.52 J		0.58 J	
Tetrachloroethylene (PCE)				0.62 J		< 1.4	
				0.096 J		0.57	
				0.091 J		0.090 J	
						0.092 J	
						< 0.20	
						< 1.3	
						< 1.4	
						< 0.20	
						< 0.20	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-30b

Chemical Testing Results - Sub-Slab Soil Vapor

2 Hadley Court, #2a

Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		2 Hadley Court, #2a			
		2 HAD-SS1 6/1/2007		2 HAD-SS2 6/1/2007	
Analyte	Method	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs) Tetrachloroethylene (PCE) 1,1,1-Trichloroethane (TCA)	TO-15	2.4	0.35	1.2 J G	0.17 J G
		1.1	0.20	0.82 J	0.15 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Notes:

- G The report is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-31a

Chemical Testing Results - Indoor Air

2 Hadley Court, #2b

Somerville, Massachusetts

Analyte		2 Hadley Court #2b									
		Sample Location:		2HADB-1		2HADB-G					
		Sample Name:		9/10/07		9/10/07					
		Sample Date:		9/10/07		9/10/07					
Units:		µg/m³		ppbv		µg/m³		ppbv			
Method		µg/m³		ppbv		µg/m³		ppbv			
Volatile Organic Compounds (VOCs)		TO-15		0.69 J		0.11 J		0.63 J		0.10 J	
Carbon tetrachloride				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				µg/m³		ppbv		µg/m³		ppbv	
				0.63 J		0.11 J		0.63 J		0.10 J	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	
				0.63 J		0.11 J		< 1.3		< 0.20	

Table 3-31b

Chemical Testing Results - Sub-Slab Soil Vapor

2 Hadley Court, #2b
Somerville, Massachusetts

Sample Location:		2 Hadley Court, #2b	
Sample Name:		2BHAD-SS1	
Sample Date:		7/6/2007	
Units:		ppbv	
Analyte	Method	$\mu\text{g}/\text{m}^3$	ppbv
Volatile Organic Compounds (VOCs) Tetrachloroethylene (PCE)	TO-15	2.5	0.37

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 3-32a

Chemical Testing Results - Indoor Air

2 Hadley Court, #2c
Somerville, Massachusetts

Analyte		2 Hadley Court, #2c									
		Sample Location: Sample Name: Sample Date:		2CHAD-1		2CHAD-G		2CHAD-1		2CHAD-G	
				9/17/07		9/17/07		2/13/08		2/13/08	
				µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs) Carbon tetrachloride		TO-15		0.62 J	0.098 J	0.62 J	0.099 J	< 1.3	< 0.2	0.63 J	0.10 J

Table 3-32a
Chemical Testing Results - Indoor Air
2 Hadley Court, #2c
Somerville, Massachusetts

Analyte		2 Hadley Court, #2c (continued)					
		Sample Location:		2HADC-1		2HADC-G	
		Sample Name:		6/5/08		6/5/08	
		Sample Date:		ppbv		ppbv	
Units:		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
Method							
Volatile Organic Compounds (VOCs)		TO-15					
Carbon tetrachloride		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	ppbv
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3		< 1.3		< 1.3	
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		< 1.3	< 0.2	< 1.3	< 0.2	< 1.3	< 0.2
		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	

Table 3-32b

Chemical Testing Results - Sub-Slab Soil Vapor

2 Hadley Court, #2c
Somerville, Massachusetts

Sample Location:		2 Hadley Court, #2c			
Sample Name:		2CHAD-SS1		2CHAD-SS2	
Sample Date:		6/8/2007		6/8/2007	
Units:					
Analyte	Method	µg/m³	ppbv	µg/m³	ppbv
Volatile Organic Compounds (VOCs) Carbon tetrachloride Tetrachloroethylene (PCE)	TO-15	< 1.3	< 0.20	0.69 J	0.11 J
		< 1.4	< 0.20	3.1	0.46

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-33a

Chemical Testing Results - Indoor Air

9 Knowlton Street
Somerville, Massachusetts

Sample Location:			9 Knowlton Street			
Sample Name:			9KNOW-1		9KNOW-B	
Sample Date:			5/21/07		5/21/07	
Analyte	Method	Units:	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)	TO-15					
1,1-Dichloroethylene			< 0.79	< 0.20	0.63 J	0.16 J
cis-1,2-Dichloroethylene			< 0.79	< 0.20	1.5	0.39
Tetrachloroethylene (PCE)			94.3 G	13.9 G	366 G	54.0 G
1,1,1-Trichloroethane (TCA)			1.3	0.23	4.4	0.81
Trichloroethylene (TCE)			1.3	0.24	3.9	0.72

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

- G The report is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.

Chemical Testing Results - Sub-Slab Soil Vapor

Sample Location:		9 Knowlton Street
Sample Name:		9 KNOW-SS1
Sample Date:		2/28/2007
Units:		
Analyte	Method	µg/m ³
Volatile Organic Compounds (VOCs)	TO-15	
Carbon tetrachloride		0.37
Tetrachloroethylene (PCE)		29.3
1,1,1-Trichloroethane (TCA)		0.14 J
		ppbv

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-34a
Chemical Testing Results - Indoor Air
12-14 Knowlton Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		12-14 Knowlton Street											
		12-14KNOW1 6/14/07		12-14KNOWB 6/14/07		12-14KNOW-1 11/13/07		12-14KNOW-B 11/13/07					
		µg/m ³		ppbv		µg/m ³		ppbv		µg/m ³		ppbv	
		Units:		Method									
Analyte				TO-15									
Volatile Organic Compounds (VOCs)													
Carbon tetrachloride													
1,2-Dichloroethane													
Tetrachloroethylene (PCE)													

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

- G The report is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-34a
Chemical Testing Results - Indoor Air
12-14 Knowlton Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Units:		12-14 Knowlton Street (continued)															
		12-14KNOW-1 8/4/08		12-14KNOW-B 8/4/08		14KNOW-1 1/19/09		14KNOW-B 1/19/09									
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv								
		Method															
Volatile Organic Compounds (VOCs) Carbon tetrachloride 1,2-Dichloroethane Tetrachloroethylene (PCE)	TO-15	0.69 J 1.6 < 1.4		0.11 J 0.39 < 0.20		0.82 J < 0.81 < 1.4		0.13 J < 0.20 < 0.20		0.62 J < 0.81 1.2 J		0.098 J < 0.20 0.17 J		0.63 J < 0.81 1.2 J		0.10 J < 0.20 0.18 J	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

- G The report is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-34b

Chemical Testing Results - Sub-Slab Soil Vapor
12-14 Knowlton Street
Somerville, Massachusetts

Analyte		12 Knowlton Street				
		12 Know-SS1 3/26/07		12 Know-SS2 3/26/07		
		µg/m ³	ppbv	µg/m ³	ppbv	
Volatile Organic Compounds (VOCs)		TO-15	14 0.93 J	2.0 0.17 J	6.5 < 1.1	0.96 < 0.20
Tetrachloroethylene (PCE)						
1,1,1-Trichloroethane (TCA)						

General Notes:

- Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
- µg/m³ = micrograms per cubic meter.
- ppbv = parts per billion by volume.
- "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-35a

Chemical Testing Results - Indoor Air
13 Knowlton Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Units:		13 Knowlton Street					
		13KNOW-1 8/28/07		13KNOW-B 8/28/07		13KNOW-B 11/7/07	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
		Method					
Volatile Organic Compounds (VOCs) Carbon tetrachloride 1,2-Dichloroethane Tetrachloroethylene (PCE)	TO-15						

Table 3-35b

Chemical Testing Results - Sub-Slab Soil Vapor

13 Knowlton Street
Somerville, Massachusetts

Sample Location:		13 Knowlton Street	
Sample Name:		13 KNOW-SS1	
Sample Date:		6/4/2007	
Analyte	Method	Units:	
Volatile Organic Compounds (VOCs)	TO-15	$\mu\text{g}/\text{m}^3$	ppbv
Carbon tetrachloride			
Tetrachloroethylene (PCE)			
		0.82 J 4.5	0.13 J 0.67

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-36a

Chemical Testing Results - Indoor Air

17 Knowlton Street

Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		17 Knowlton Street			
		17KNOW-1 10/5/07		17KNOW-B 10/5/07	
		µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:			
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		0.63 J	0.10 J	0.60 J	0.095 J
Tetrachloroethylene (PCE)		1.7	0.25	2.7	0.40
1,1,1-Trichloroethane (TCA)		0.71 J	0.13 J	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-36b

Chemical Testing Results - Sub-Slab Soil Vapor

17 Knowlton Street

Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Units:		17 Knowlton Street			
		17KNOW-SS1 6/22/2007		17KNOW-SS2 6/22/2007	
		µg/m³	ppbv	µg/m³	ppbv
		Method			
Analyte	TO-15				
		Volatile Organic Compounds (VOCs)			
		Tetrachloroethylene (PCE)			
1,1,1-Trichloroethane (TCA)		66	9.7	1.6	0.24
		1.5	0.28	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Table 3-37a

Chemical Testing Results - Indoor Air

19 Knowlton Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		19 Knowlton Street					
		19KNOW-1 7/25/07		19KNOW-B 7/25/07		19KNOW-1 12/6/07	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method						
Volatile Organic Compounds (VOCs) Carbon tetrachloride Dichloroethane, 1,2- Tetrachloroethylene (PCE)	TO-15	0.60 J 0.61 J 1.2 J	0.096 J 0.15 J 0.17 J	0.59 J < 0.81 1.3 J	0.094 J < 0.20 0.19 J	0.63 J < 0.81 < 1.4	0.11 J < 0.20 < 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-37a

Chemical Testing Results - Indoor Air

19 Knowlton Street
Somerville, Massachusetts

Sample Location:		19 Knowlton Street (continued)					
		19KNOW-1 2/15/08		19KNOW-B 2/15/08		19KNOW-1 8/21/08	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Units:						
		Method					
Volatile Organic Compounds (VOCs)		TO-15					
Carbon tetrachloride							
Dichloroethane, 1,2-							
Tetrachloroethylene (PCE)							
		0.59 J < 0.81 < 1.4	0.094 J < 0.20 < 0.20	< 1.3 < 0.81 < 1.4	< 0.20 < 0.20 < 0.20	< 1.3 < 0.81 < 1.4	0.63 J < 0.81 < 1.4
							0.10 J < 0.20 < 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-37b

Chemical Testing Results - Sub-Slab Soil Vapor
19 Knowlton Street
Somerville, Massachusetts

Sample Location:			19 Knowlton Street	
Sample Name:			19KNOW-SS2	
Sample Date:			6/21/2007	
Units:			ppbv	
Analyte	Method			
Volatile Organic Compounds (VOCs)	TO-15			
Tetrachloroethylene (PCE)			18	2.7

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 3-38a

Chemical Testing Results - Indoor Air

23 Knowlton Street
Somerville, Massachusetts

Analyte		23 Knowlton Street					
		Sample Location:		23 KNOW-1		23 KNOW-B	
		Sample Name:		4/23/07		4/23/07	
		Sample Date:		ppbv		ppbv	
		Units:		µg/m ³	ppbv	µg/m ³	ppbv
		Method					
Volatile Organic Compounds (VOCs)		TO-15					
Carbon tetrachloride				1.0 J	0.16 J	< 1.3	< 0.20
1,2-Dichloroethane				< 0.81	< 0.20	< 0.81	< 0.20
Tetrachloroethylene (PCE)				1.3 J	0.19 J	1.2 J	0.18 J
1,1,1-Trichloroethane (TCA)				< 1.1	< 0.20	0.87 J	0.16 J
						0.69 J	0.11 J
						0.38 J	0.093 J
						< 1.4	< 0.20
						< 1.1	< 0.20
						0.60 J	0.11 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-38a

Chemical Testing Results - Indoor Air

23 Knowlton Street
Somerville, Massachusetts

Analyte		23 Knowlton Street (continued)					
		Sample Location:		23KNOW-1		23KNOW-B	
		Sample Name:		2/5/08		2/5/08	
		Sample Date:		ppbv		ppbv	
		Units:		µg/m ³	ppbv	µg/m ³	ppbv
		Method					
Volatile Organic Compounds (VOCs)		TO-15					
Carbon tetrachloride				< 1.3		< 0.20	
1,2-Dichloroethane				< 0.81		< 0.20	
Tetrachloroethylene (PCE)				< 1.4		< 0.20	
1,1,1-Trichloroethane (TCA)				< 1.1		< 0.20	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-38a

Chemical Testing Results - Indoor Air

23 Knowlton Street

Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		23 Knowlton Street (continued)			
		23KNOW-1 1/15/09		23KNOW-B 1/15/09	
		µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:			
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		0.82 J	0.13 J	0.63 J	0.10 J
1,2-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20
Tetrachloroethylene (PCE)		1.3 J	0.19 J	4.5	0.66
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-38b

Chemical Testing Results - Sub-Slab Soil Vapor
23 Knowlton Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		23 Knowlton Street	
		23 KNOW-SS1	
		2/28/2007	
Analyte	Method	µg/m ³	ppbv
Volatiles Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		4.1	0.61
Trichloroethane, 1,1,1- (TCA)		1.4	0.26

General Notes:

- 1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
- 2. µg/m³ = micrograms per cubic meter.
- 3. ppbv = parts per billion by volume.

Table 3-39a

Chemical Testing Results - Indoor Air

27 Knowlton Street

Somerville, Massachusetts

Analyte		27Knowlton Street							
		Sample Location:		27 KNOW-1		27 KNOW-B		27KNOW-B	
		Sample Name:		5/2/07		5/2/07		3/7/08	
		Sample Date:		ppbv		ppbv		ppbv	
Units:		µg/m ³		µg/m ³		µg/m ³		µg/m ³	
Method		ppbv		ppbv		ppbv		ppbv	
TO-15		0.61 J < 1.4		0.097 J < 0.20		0.75 J 1.0 J		0.61 J < 1.4	
Volatile Organic Compounds (VOCs)		0.097 J < 0.20		0.12 J 0.15 J		0.097 J < 0.20		0.097 J < 0.20	
Carbon tetrachloride		0.61 J < 1.4		0.097 J < 0.20		0.75 J 1.0 J		0.61 J < 1.4	
Tetrachloroethylene (PCE)		0.097 J < 0.20		0.12 J 0.15 J		0.097 J < 0.20		0.097 J < 0.20	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-39b

Chemical Testing Results - Sub-Slab Soil Vapor
27 Knowlton Street
Somerville, Massachusetts

Sample Location:			27 Knowlton Street			
Sample Name:			27KNOW-SS1		27KNOW-SS2	
Sample Date:			3/9/2007		3/9/2007	
Analyte	Method	Units:	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	ppbv
Volatile Organic Compounds (VOCs)	TO-15					
Tetrachloroethylene (PCE)			< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethylene (TCE)			< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Table 3-40b

Chemical Testing Results - Sub-Slab Soil Vapor

29 Knowlton Street
Somerville, Massachusetts

Analyte		Sample Location: Sample Name: Sample Date: Units:		29 Knowlton Street	
				29 KNOW-SS1 3/22/2007	29KNOW-SS2 3/22/2007
				$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
Volatile Organic Compounds (VOCs)		Method	TO-15	ppbv	ppbv
Carbon tetrachloride				< 0.20	0.94 J
Tetrachloroethylene (PCE)				5.8	< 1.4
					0.15 J < 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-41a

Chemical Testing Results - Indoor Air
31-33 Knowlton Street
Somerville, Massachusetts

Analyte		31-33 Knowlton Street											
		Sample Location:		33Know-1		33KNOWLTON-B		31 Know-1		31 Know-B			
		Sample Name:		1/22/07		1/22/07		4/20/07		4/20/07			
		Sample Date:											
Units:		µg/m ³		ppbv		µg/m ³		ppbv		µg/m ³		ppbv	
Method													
Volatile Organic Compounds (VOCs) Carbon tetrachloride Tetrachloroethylene (PCE)		TO-15		< 1.3		< 0.20		< 1.3		< 0.20		< 0.20	
				< 1.4		< 0.20		3.0		0.44		1.4	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-41b

Chemical Testing Results - Sub-Slab Soil Vapor
31-33 Knowlton Street
Somerville, Massachusetts

Sample Location:		31-33 Knowlton Street	
Sample Name:		31 KNOW-SS2	
Sample Date:		3/5/2007	
Analyte	Method	Units:	
Volatiles Organic Compounds (VOCs) Tetrachloroethylene (PCE)	TO-15	µg/m ³	ppbv
		2.6	0.39

General Notes:

- 1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
- 2. µg/m³ = micrograms per cubic meter.
- 3. ppbv = parts per billion by volume.

Table 3-41c

Chemical Testing Results - Post-EPEM Installation Indoor Air
31-33 Knowlton Street
Somerville, Massachusetts

Sample Location:		31-33 Knowlton Street							
Sample Name:		31KNOW1		31KNOWB		31KNOW-1		31KNOW-B	
Sample Date:		8/6/2007		8/6/2007		11/12/2007		11/12/2007	
Units:		µg/m ³		ppbv		µg/m ³		ppbv	
Analyte	Method								
Volatile Organic Compounds (VOCs) Carbon tetrachloride Tetrachloroethylene (PCE)	TO-15	< 1.3		< 0.20		< 0.69 J		< 0.11 J	
		< 1.4		< 0.20		< 1.4		< 0.20	

Table 3-41c

Chemical Testing Results - Post-EPEM Installation Indoor Air
31-33 Knowlton Street
Somerville, Massachusetts

Analyte		31-33 Knowlton Street (continued)											
		Sample Location:		31-33KNOW-1		31-33KNOW-B		31-33KNOW-B					
		Sample Name:		2/6/2008		2/6/2008		7/14/2008					
		Sample Date:		2/6/2008		2/6/2008		7/14/2008					
Units:		µg/m ³		ppbv		µg/m ³		ppbv		µg/m ³		ppbv	
Method													
Volatile Organic Compounds (VOCs)		TO-15											
Carbon tetrachloride				< 1.3		< 0.20		< 1.3		< 0.20		< 1.3	
Tetrachloroethylene (PCE)				1.9		0.28		4.9		0.72		< 1.4	

Table 3-41c

Chemical Testing Results - Post-EPEM Installation Indoor Air
31-33 Knowlton Street
Somerville, Massachusetts

Analyte		31-33 Knowlton Street (continued)									
		Sample Location:		31-33KNOW-1A		31-33KNOW-1B		31-33KNOW-B1		31-33KNOW-B2	
		Sample Name:		1/19/09		1/19/09		1/19/09		1/19/09	
		Sample Date:									
		Units:		µg/m ³		ppbv		µg/m ³		ppbv	
				< 1.3		< 0.20		< 1.3		< 0.20	
				< 1.4		< 0.20		< 1.4		< 0.20	

Table 3-42a
Chemical Testing Results - Indoor Air
32 Knowlton Street
Somerville, Massachusetts

Analyte		32 Knowlton Street					
		Location Name:		32KNOW-1		32KNOW-B	
		Sample Name:		10/30/08		10/30/08	
		Sample Date:		10/30/08		1/16/09	
		Units:		µg/m ³	ppbv	µg/m ³	ppbv
Method							
TO-15							
Volatile Organic Compounds (VOCs)							
Carbon tetrachloride				0.58 J		0.63 J	
Dichloroethene, cis-1,2-				< 0.79		< 0.79	
Tetrachloroethene (PCE)				< 1.4		5.6	
Trichloroethene (TCE)				< 1.1		< 1.1	
				0.092 J		0.097 J	
				< 0.20		< 0.20	
				< 0.20		< 0.20	
				< 0.20		< 0.20	
				0.57 J		0.57 J	
				0.59 J		0.59 J	
				20		20	
				0.91 J		0.91 J	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-42b

Chemical Testing Results - Sub-Slab Soil Vapor
32 Knowlton Street
Somerville, Massachusetts

32 Knowlton Street - All analytes non-detect 5/16/07

Table 3-43a
Chemical Testing Results - Indoor Air
35-37 Knowlton Street
Somerville, Massachusetts

Sample Location:		35-37 Knowlton Street	
Sample Name:		37 KNOWLTON-B	
Sample Date:		1/23/07	
Analyte	Method	Units:	
Volatile Organic Compounds (VOCs) Carbon tetrachloride Dichloroethane, 1,1- Dichloroethylene, cis-1,2- Dichloroethylene, 1,1- Tetrachloroethylene (PCE) Trichloroethane, 1,1,1- (TCA) Trichloroethylene (TCE)	TO-15	µg/m ³ 0.69 J 7.3 3.4 6.7 163 2.0 20	ppbv 0.11 J 1.8 0.86 1.7 24.0 0.37 3.8

- General Notes:**
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
 2. µg/m³ = micrograms per cubic meter.
 3. ppbv = parts per billion by volume.

Qualifying Note:
J The reported result is below the laboratory reporting limit and is estimated.

Table 3-43b
Chemical Testing Results - Sub-Slab Soil Vapor
35-37 Knowlton Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		35-37 Knowlton Street			
		35 Know-SS1 3/19/07		35 Know-SS2 3/19/07	
		µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:			
Volatile Organic Compounds (VOCs)	TO-15				
1,1-Dichloroethane		502	124	619	153
1,1-Dichloroethylene		749	189	1100	277
cis-1,2-Dichloroethylene		249	62.9	390	98.3
Tetrachloroethylene (PCE)		16400	2420	21600	3190
1,1,1-Trichloroethane (TCA)		198	36.2	366	67.0
Trichloroethylene (TCE)		3050	567	3740	696

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Chemical Testing Results - Post-EPEM Installation Indoor Air
35-37 Knowlton Street
Somerville, Massachusetts

May 2009

Table 3-44a

Chemical Testing Results - Indoor Air
4 Morton Street
Somerville, Massachusetts

4 Morton Street - All Indoor Air Sampling Confirmatory (Post-EPEM Installation)

Table 3-44b

Chemical Testing Results - Sub-Slab Soil Vapor

4 Morton Street
Somerville, Massachusetts

Sample Location:		4 Morton Street	
Sample Name:		4MORT-SS2	
Sample Date:		6/27/07	
Analyte	Method	µg/m ³	ppbv
Volatiles	TO-15		
Volatile Organic Compounds (VOCs)			
Tetrachloroethylene (PCE)		38300	5650
1,1,1-Trichloroethane (TCA)		401	73.5
Trichloroethylene (TCE)		169	31.4

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 3-44c

Chemical Testing Results - Post-EPEM Installation Indoor Air
4 Morton Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Collected By:		4 Morton Street			
		4MORT-1 3/7/09 GEI		4MORT-B 3/7/09 GEI	
		µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:			
Volatile Organic Compounds (VOCs) Carbon Tetrachloride Tetrachloroethylene (PCE)	TO-15	0.61 J < 1.4	0.097 J < 0.20	< 1.3 18	< 0.20 2.6

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-45a
Chemical Testing Results - Indoor Air
6-8 Morton Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		6-8 Morton Street					
		6MORT-1 6/18/07		6MORT-B 6/18/07		6-8MORT-1 11/7/07	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Units: Method						
Volatile Organic Compounds (VOCs) Carbon tetrachloride Tetrachloroethylene (PCE)	TO-15	0.69 J < 1.4	0.11 J < 0.20	< 1.3 1.4	< 0.20 0.20	< 1.3 < 1.4	< 0.20 < 0.20
						< 1.3 3.1	< 0.20 0.45

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-45a
Chemical Testing Results - Indoor Air
6-8 Morton Street
Somerville, Massachusetts

Analyte		6-8 Morton Street (continued)					
		6MORT-1 2/7/08		6MORT-B 2/7/08		6MORT-1 6/16/08	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)							
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	1.2 J	0.17 J	2.2	0.33

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-45b

Chemical Testing Results - Sub-Slab Soil Vapor

6-8 Morton Street

Somerville, Massachusetts

Sample Location:		6-8 Morton Street			
Sample Name:		8Mort-SS1		8Mort-SS2	
Sample Date:		4/20/07		4/20/07	
Analyte	Units:	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	ppbv
Volatile Organic Compounds (VOCs)	Method	TO-15			
Tetrachloroethylene (PCE)		16	2.3	3.9	0.58

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 3-46a
Chemical Testing Results - Indoor Air
7 Morton Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		7 Morton Street					
		7MORT-1 6/20/07		7MORT-B 6/20/07		7MORT-1 11/13/07	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Units: Method						
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		0.62 J	0.099 J	0.82 J	0.13 J	0.63 J	< 0.20
Dichloroethane, 1,2-		< 0.81	< 0.20	< 0.81	< 0.20	0.45 J	< 0.20
Tetrachloroethylene (PCE)		0.95 J	0.14 J	< 1.4	< 0.20	< 1.4	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Chemical Testing Results - Indoor Air

Somerville, Massachusetts

General Notes:

- ### Qualifying Note:

GEI Consultants, Inc.

Table 3-46a

Chemical Testing Results - Indoor Air

7 Morton Street

Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		7 Morton Street (continued)			
		7MORT-1 1/15/09		7MORT-B 1/15/09	
		µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method				
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		0.69 J	0.11 J	< 1.3	< 0.20
Dichloroethane, 1,2-		< 0.81	< 0.20	< 0.81	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-46b

Chemical Testing Results - Sub-Slab Soil Vapor

7 Morton Street
Somerville, Massachusetts

Sample Location:		7 Morton Street
Sample Name:		7Mort-SS1
Sample Date:		5/8/07
Analyte	Method	Units:
Volatile Organic Compounds (VOCs) Tetrachloroethylene (PCE)	TO-15	µg/m ³ 6.4 0.94

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 3-47a
Chemical Testing Results - Indoor Air
10 Morton Street
Somerville, Massachusetts

Analyte	Sample Location:		10 Morton Street			
	Sample Name:		10MORT 1		10MORT B	
	Sample Date:		8/10/07		8/10/07	
	Units:		µg/m ³		ppbv	
Volatile Organic Compounds (VOCs)	Method		µg/m ³		ppbv	
Carbon tetrachloride	TO-15		< 1.3		< 0.20	
Tetrachloroethylene (PCE)			2.2		0.33	
Trichloroethane, 1,1,1- (TCA)			4.3		0.79	
			0.63 J		0.69 J	
			< 1.4		< 1.4	
			< 1.1		< 1.1	
			0.10 J		0.11 J	
			< 0.20		< 0.20	
			< 0.20		< 0.20	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-47a
Chemical Testing Results - Indoor Air
10 Morton Street
Somerville, Massachusetts

Sample Location:		10 Morton Street (continued)					
		10MORT-B 11/12/07		10MORT-1 2/21/08		10MORT-B 2/21/08	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:					
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		0.62 J	0.099 J	0.63 J	0.10 J	< 1.3	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	2.2	0.32	12	1.8
Trichloroethane, 1,1,1- (TCA)		0.60 J	0.11 J	< 1.1	< 0.20	0.47 J	0.087 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-47b
Chemical Testing Results - Sub-Slab Soil Vapor
10 Morton Street
Somerville, Massachusetts

Sample Location:			10 Morton Street		
Sample Name:			10MORT-SS1		
Sample Date:			5/9/07		
Units:			10MORT-SG1		
Analyte	Method		$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$
Volatile Organic Compounds (VOCs) Tetrachloroethylene (PCE) 1,1,1-Trichloroethane (TCA)	TO-15				ppbv
			< 1.4	< 0.20	4.0
			0.87 J	0.16 J	1.2
					0.59
					0.22

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-47c

Chemical Testing Results - Post-EPEM Installation Indoor Air

10 Morton Street

Somerville, Massachusetts

10 Morton Street - All analytes non-detect 4/3/09

Table 3-48a
Chemical Testing Results - Indoor Air
11 Morton Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		11 Morton Street			
		11 MORT-1 6/5/07		11 MORT-B 6/5/07	
		µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method				
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		0.61 J	0.097 J	0.63 J	0.10 J
Tetrachloroethylene (PCE)		8.1	1.2	3.0	0.44
Trichloroethylene (TCE)		4.5	0.84	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-48b
Chemical Testing Results - Sub-Slab Soil Vapor
11 Morton Street
Somerville, Massachusetts

Analyte	Sample Location: Sample Name: Sample Date: Units:	11 Morton Street			
		11 MORT-SS1 3/21/07		11 MORT-SS2 3/21/07	
		µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)	Method TO-15				
1,1-Dichloroethane		0.85	0.21	< 0.81	< 0.20
1,1-Dichloroethylene		1.2	0.31	< 0.79	< 0.20
Tetrachloroethylene (PCE)		403	59.5	1.6	0.23
1,1,1-Trichloroethane (TCA)		8.2	1.5	< 1.1	< 0.20
Trichloroethylene (TCE)		9.7	1.8	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Table 3-48c

Chemical Testing Results - Post-EPEM Installation Indoor Air

11 Morton Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		11 Morton Street		
		11 MORT-1 10/23/08		11 MORT-B 10/23/08
		$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$ ppbv
Analyte	Method	Units:		
Volatile Organic Compounds (VOCs)	TO-15			
Carbon tetrachloride				
Tetrachloroethylene (PCE)				
Trichloroethylene (TCE)				
		0.63 J < 1.4 < 1.1	0.10 J < 0.20 < 0.20	0.69 J < 1.4 < 1.1 0.11 J < 0.20 < 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-48c

Chemical Testing Results - Post-EPEM Installation Indoor Air

11 Morton Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		11 Morton Street (continued)					
		11MORT-1A 1/21/09		11MORT-1B 1/21/09		11MORT-B1 1/21/09	
		11MORT-1A 1/21/09		11MORT-1B 1/21/09		11MORT-B1 1/21/09	
Analyte	Method	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs) Carbon tetrachloride Tetrachloroethylene (PCE) Trichloroethylene (TCE)	TO-15	0.88 J	0.14 J	0.82 J	0.13 J	1.6	0.25
		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
						1.5	0.24
						< 1.4	< 0.20
						< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-49a

Chemical Testing Results - Indoor Air

12 Morton Street

Somerville, Massachusetts

12 Morton Street - All Indoor Air Sampling Confirmatory (Post-EPEM Installation)

Table 3-49b

Chemical Testing Results - Sub-Slab Soil Vapor

12 Morton Street

Somerville, Massachusetts

Sample Location:		12 Morton Street	
Sample Name:		12MORT-SS1	
Sample Date:		5/29/07	
Analyte	Method	Units:	
Volatile Organic Compounds (VOCs)	TO-15	$\mu\text{g}/\text{m}^3$	ppbv
Tetrachloroethylene (PCE)			
		1010	149

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 3-49c

Chemical Testing Results - Post-EPEM Installation Indoor Air

12 Morton Street

Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Units:		12 Morton Street											
		12MORT-1A 3/5/08		12MORT-1B 3/5/08		12MORT-B1 3/5/08		12MORT-B2 3/5/08					
		µg/m ³		ppbv		µg/m ³		ppbv		µg/m ³		ppbv	
		0.62 J		0.099 J		< 1.3		< 0.20		< 1.3		< 0.20	
Analyte	Method												
Volatile Organic Compounds (VOCs) Carbon tetrachloride	TO-15												

Table 3-49c

Chemical Testing Results - Post-EPEM Installation Indoor Air
 12 Morton Street
 Somerville, Massachusetts

Analyte	Sample Location: Sample Name: Sample Date: Units:	12 Morton Street (continued)					
		12MORT-1A 3/21/08		12MORT-1B 3/21/08		12MORT-B1 3/21/08	
		12MORT-B2 3/21/08					
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs) Carbon tetrachloride	Method TO-15	0.62 J	0.099 J	0.75 J	0.12 J	< 1.3	< 0.20
						0.60 J	0.095 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. On 3/05/08 and 3/21/08 two samples were taken from the 1st Floor (1A and 1B) and two from the basement (B1 and B2).

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-49c

Chemical Testing Results - Post-EPEM Installation Indoor Air
 12 Morton Street
 Somerville, Massachusetts

Sample Location:		12 Morton Street			
		12MORT-1 4/3/09		12MORT-B 4/3/09	
Analyte	Method	Units:			
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride					
		$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	ppbv
		< 1.3	< 0.20	< 1.3	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. On 3/05/08 and 3/21/08 two samples were taken from the 1st Floor (1A and 1B) and two from the basement (B1 and B2).

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-50a

Chemical Testing Results - Indoor Air

13 Morton Street

Somerville, Massachusetts

13 Morton Street - All Indoor Air Sampling Confirmatory (Post-EPEM Installation)

Chemical Testing Results - Sub-Slab Soil Vapor

Somerville, Massachusetts

General Notes:

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Table 3-50c

Chemical Testing Results - Post-EPEM Installation Indoor Air

13 Morton Street

Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		13 Morton Street							
		13 MORT-1A 1/21/09		13 MORT-1B 1/21/09		13 MORT-B1 1/21/09		13 MORT-B2 1/21/09	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:							
Volatile Organic Compounds (VOCs)									
Carbon tetrachloride	TO-15								
Tetrachloroethylene (PCE)		0.62 J < 1.4 < 1.1	0.098 J < 0.20 < 0.20	0.61 J < 1.4 < 1.1	0.097 J < 0.20 < 0.20	0.69 J < 1.4 < 1.1	0.11 J < 0.20 < 0.20	0.63 J < 1.4 < 1.1	0.10 J < 0.20 < 0.20
Trichloroethylene (TCE)									

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-51a
Chemical Testing Results - Indoor Air
15-17 Morton Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Units:		15-17 Morton Street							
		15MORT-1 2/27/08		15MORT-B 2/27/08		15-17MORT-1 12/23/08		15-17MORT-B 12/23/08	
		µg/m ³		ppbv		µg/m ³		ppbv	
		0.63 J		0.10 J		0.69 J		0.11 J	
Analyte	Method								
Volatile Organic Compounds (VOCs) Carbon tetrachloride	TO-15								

Table 3-51b

Chemical Testing Results - Sub-Slab Soil Vapor
15 Morton Street
Somerville, Massachusetts

15 Morton Street - All analytes non detect 5/14/07

Table 3-52a

Chemical Testing Results - Indoor Air

18 Morton Street

Somerville, Massachusetts

18 Morton Street - All Indoor Air Sampling Confirmatory (Post-EPEM Installation)

Table 3-52b

Chemical Testing Results - Sub-Slab Soil Vapor

18 Morton Street

Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		18 Morton Street			
		18 MORT-SS1 3/19/07		18 MORT-SS2 3/19/07	
		µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:			
Volatile Organic Compounds (VOCs)	TO-15				
1,1-Dichloroethane		< 0.81	< 0.20	2.6	0.64
1,1-Dichloroethylene		< 0.79	< 0.20	69.4	17.5
Tetrachloroethylene (PCE)		6.8	1.0	1180	174
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	27	4.9
Trichloroethylene (TCE)		< 1.1	< 0.20	97.3	18.1

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Table 3-52c

Chemical Testing Results - Post-EPEM Installation Indoor Air

18 Morton Street

Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Units:		18 Morton Street					
		18MORT-B 7/24/07		18MORT-B 11/5/07		18MORT-B 2/4/08	
		µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
		Method					
Volatile Organic Compounds (VOCs) Carbon tetrachloride 1,2-Dichloroethane Tetrachloroethylene (PCE)	TO-15	< 1.3	< 0.20	0.60 J	0.095 J	< 1.3	< 0.20
		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
		1.4	0.20	< 1.4	< 0.20	< 1.4	< 0.20

Table 3-52c

Chemical Testing Results - Post-EPEM Installation Indoor Air

18 Morton Street

Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		18 Morton Street					
		18MORT-1A 1/17/09		18MORT-1B 1/17/09		18MORT-B1 1/17/09	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs) Carbon tetrachloride 1,2-Dichloroethane Tetrachloroethylene (PCE)	Units: Method TO-15	0.69 J	0.11 J	0.69 J	0.11 J	< 1.3	< 0.20
		0.73 J	0.18 J	0.73 J	0.18 J	< 0.81	< 0.20
		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
						0.61 J	0.097 J
						< 0.81	< 0.20
						< 1.4	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-53a
Chemical Testing Results - Indoor Air
19-19A Morton Street
Somerville, Massachusetts

Analyte		Location Name: Sample Name: Sample Date: Units: Method	19-19A Morton Street							
			19MORT-1 7/2/07		19MORT-B 7/2/07		19MORT-1 4/4/08		19MORT-B 4/4/08	
			µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)		TO-15	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J
Carbon tetrachloride			< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane, 1,2-			< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	0.68 J	0.10 J
Tetrachloroethylene (PCE)										

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-53a

Chemical Testing Results - Indoor Air

19-19A Morton Street

Somerville, Massachusetts

Analyte		Location Name:		19-19A Morton Street (continued)					
		Sample Name:		19MORT-1		19MORT-B		19MORT-1	
		Sample Date:		8/18/08		8/18/08		1/13/09	
		Units:							
		Method							
Volatile Organic Compounds (VOCs)		TO-15							
Carbon tetrachloride				0.88 J		0.69 J		0.10 J	
Dichloroethane, 1,2-				4.9		0.73 J		< 0.20	
Tetrachloroethylene (PCE)				< 1.4		< 1.4		0.89	
								< 1.3	
								< 0.81	
								8.8	
								< 0.20	
								1.3	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-53b

Chemical Testing Results - Sub-Slab Soil Vapor

19-19A Morton Street

Somerville, Massachusetts

Analyte	Sample Location:		19-19A Morton Street	
	Sample Name:		19 Mort-SS1	
	Sample Date:		4/18/07	
	Units:		19 Mort-SS2 4/18/07	
Volatile Organic Compounds (VOCs)	Method	TO-15	µg/m ³	ppbv
Tetrachloroethylene (PCE)			2.4 J	0.35 J
			80.7	11.9

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-54a

Chemical Testing Results - Indoor Air

21 Morton Street

Somerville, Massachusetts

Location Name:		21 Morton Street									
Sample Name:		21MORT-1		21MORT-B		21MORT-B		21MORT-1		21MORT-B	
Sample Date:		5/15/07		5/15/07		9/17/08		1/13/09		1/13/09	
Units:		ppbv		ppbv		ppbv		ppbv		ppbv	
Method		μg/m ³		μg/m ³		μg/m ³		μg/m ³		μg/m ³	
Analyte	TO-15	< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
Volatile Organic Compounds (VOCs)		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
Carbon tetrachloride		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		μg/m ³		μg/m ³		μg/m ³		μg/m ³		μg/m ³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		21MORT-B		21MORT-B		21MORT-B		21MORT-1		21MORT-B	
		5/15/07		5/15/07		9/17/08		1/13/09		1/13/09	
		1/13/09		1/13/09		1/13/09		1/13/09		1/13/09	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		μg/m ³		μg/m ³		μg/m ³		μg/m ³		μg/m ³	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
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		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.20		< 0.20		< 0.20		< 0.20		< 0.20	
		< 1.3		< 1.3		< 1.3		< 1.3		< 1.3	
		< 0.									

Table 3-54b

Chemical Testing Results - Sub-Slab Soil Vapor

21 Morton Street

Somerville, Massachusetts

Analyte	Sample Location:	
	Sample Name:	21 Morton Street
	Sample Date:	21 Mort-SS1A 3/28/07
	Units:	21 Mort-SS2A 3/28/07
Method		
TO-15		
Volatile Organic Compounds (VOCs)		
Tetrachloroethylene (PCE)		
1,1,1-Trichloroethane (TCA)		
	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
	ppbv	ppbv
	3.1	14
	0.65 J	154
	0.45	2.0
	0.12 J	28.2

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-55a
Chemical Testing Results - Indoor Air
9 Tufts Street
Somerville, Massachusetts

Location Name:			9 Tufts Street									
Analyte	Method	Units:	IA-5 (1) 2/23/05 Shaw		IA-6 (B) 2/23/05 Shaw		9TUFTS-1L 3/23/06 GEI		9TUFTS-1R 3/23/06 GEI		9TUFTS-BR 3/23/06 GEI	
			µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Volatile Organic Compounds (VOCs)			TO-15									
Carbon tetrachloride			< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Chloroform			1.2	0.25	0.54 J	0.11 J	0.78 J	0.16 J	< 0.98	< 0.20	1.3	0.26
Chloromethane			1.0	0.49	0.91	0.44	1.4 G	0.69 G	1.4 G	0.69 G	1.1 G	0.53 G
Methylene chloride			0.59 J	0.17 J	0.56 J	0.16 J	1.8 B	0.52 B	1.3 B	0.36 B	1.9 B	0.55 B
Tetrachloroethylene (PCE)			1.8	0.27	1.3 J	0.19 J	< 1.4	< 0.20	0.95 J	0.14 J	2.4	0.35
Trichloroethane, 1,1,1- (TCA)			< 1.1	< 0.20	< 1.1	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethylene (TCE)			< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.
6. 1L = First floor, left side of house.
7. 1R = First floor, right side of house.
8. Samples from 2005 were collected by Shaw Environmental, Inc.

Qualifying Notes:

- B The reported result is attributed to sampling or laboratory contamination.
- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-55a
Chemical Testing Results - Indoor Air
9 Tufts Street
Somerville, Massachusetts

Analyte		Location Name:		9 Tufts Street (continued)							
		Sample Name:		9TUFTS-1L		9TUFTS-1R		9TUFTS-BR		9TUFTS-1L	
		Sample Date:		7/24/06		7/24/06		7/24/06		10/2/06	
		Collected By:		GEI		GEI		GEI		GEI	
Units:		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Method											
TO-15											
Volatile Organic Compounds (VOCs)											
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Chloroform		0.88 J	0.18 J	2.3	0.47	1.2	0.24	NT	0.24	NT	NT
Chloromethane		1.0	0.49	1.1	0.55	0.95	0.46	NT	0.46	NT	NT
Methylene chloride		4.2 B	1.2 B	6.6 B	1.9 B	11 B	3.1 B	NT	3.1 B	NT	NT
Tetrachloroethylene (PCE)		1.2 J	0.18 J	2.0	0.29	3.1	0.45	3.5	0.45	0.52	0.52
Trichloroethane, 1,1,1- (TCA)		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

Table 3-55a
Chemical Testing Results - Indoor Air
9 Tufts Street
Somerville, Massachusetts

		9 Tufts Street (continued)									
		Location Name:		9 TUFTS-1R		9TUFTS-BR		9 TUFTS-1L		9 TUFTS-1R	
		Sample Name:		10/2/06		10/2/06		12/15/06		12/15/06	
		Sample Date:		GEI		GEI		GEI		GEI	
		Collected By:									
		Units:									
Analyte	Method										
Volatile Organic Compounds (VOCs)											
Carbon tetrachloride	TO-15										
Chloroform											
Chloromethane											
Methylene chloride											
Tetrachloroethylene (PCE)											
Trichloroethane, 1,1,1- (TCA)											
Trichloroethylene (TCE)											
		$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	ppbv
		< 1.3	< 0.20	< 1.3	< 0.20	< 0.62 J	0.099 J	0.59 J	0.093 J	0.75 J	0.12 J
		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
		6.2	0.91	16	2.4	1.9	0.28	0.64 J	0.095 J	2.2	0.32
		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.
6. 1L = First floor, left side of house.
7. 1R = First floor, right side of house.
8. Samples from 2005 were collected by Shaw Environmental, Inc.

Qualifying Notes:

- B The reported result is attributed to sampling or laboratory contamination.
- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-55b

Chemical Testing Results - Sub-Slab Soil Vapor

9 Tufts Street

Somerville, Massachusetts

9 Tufts Street - No Sub-Slab Sampling

Table 3-56a
Chemical Testing Results - Indoor Air
11-13 Tufts Street
Somerville, Massachusetts

Analyte	Sample Location: Sample Name: Sample Date: Collected By: Units:	11-13 Tufts Street					
		IA-2 (B) 2/23/05 Shaw		IA-2D (Duplicate) 2/23/05 Shaw		IA-1 (1) 2/23/05 SHAW	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)							
Carbon tetrachloride	TO-15	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Chloroform		< 0.98	< 0.20	< 0.98	< 0.20	2.8	0.57
Chloromethane		0.81	0.39	0.74	0.36	0.99	0.48
Methylene chloride		1.0	0.29	0.90	0.26	0.8	0.23
Tetrachloroethylene (PCE)		1.8	0.26	1.9	0.28	1.0 J	0.15 J
Trichloroethane, 1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.
6. Samples from 2005 were collected by Shaw Environmental, Inc.

Qualifying Notes:

- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 3-56a
Chemical Testing Results - Indoor Air
11-13 Tufts Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Collected By:		11-13 Tufts Street (continued)					
		11/13 TUFTS-1 3/24/06 GEI		11/13 TUFTS-B 3/24/06 GEI		11/13 TUFTS-1 6/29/06 GEI	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:					
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J
Chloroform		< 0.98	< 0.20	< 0.98	< 0.20	< 0.98	< 0.20
Chloromethane		1.4 G	0.70 G	1.4 G	0.68 G	1.7	0.80
Methylene chloride		1.2 J+	0.34 J+	4.5 J+	1.3 J+	2.7 J+	1.5 J+
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	1.8	0.36
Trichloroethane, 1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	0.71 J	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.
6. Samples from 2005 were collected by Shaw Environmental, Inc.

Qualifying Notes:

- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 3-56a
Chemical Testing Results - Indoor Air
11-13 Tufts Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Collected By:		11-13 Tufts Street (continued)					
		11/13 TUFTS-1 9/28/06 GEI		11/13 TUFTS-B 9/28/06 GEI		11/13 TUFTS-1 12/15/06 GEI	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:					
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J
Chloroform		NT	NT	NT	NT	NT	NT
Chloromethane		NT	NT	NT	NT	NT	NT
Methylene chloride		NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.5	0.22	0.88 J	0.13 J	2.2	0.33
Trichloroethane, 1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.
6. Samples from 2005 were collected by Shaw Environmental, Inc.

Qualifying Notes:

- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 3-56b
Chemical Testing Results - Sub-Slab Soil Vapor
11-13 Tufts Street
Somerville, Massachusetts

11-13 Tufts Street - No Sub-Slab Sampling

Table 3-57a
Chemical Testing Results - Indoor Air
17 Tufts Street
Somerville, Massachusetts

Analyte		17 Tufts Street					
		Sample Location:			17TUFTS-1		
		Sample Name: Sample Date: Collected By:			3/24/06 GEI		
		IA-12 (1) 3/24/05 Shaw		IA-11 (B) 3/24/05 Shaw		17TUFTS-B 3/24/06 GEI	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)							
Carbon tetrachloride		NT	NT	NT	NT	< 1.3	< 0.20
Chloroform		1.9	0.39	1.1	0.23	< 0.98	< 0.20
Chloromethane		1.1	0.52	0.97	0.47	1.2 G	0.58 G
Methylene chloride		1.0	0.3	1.5	0.43	59.1 G	17.0 G
Tetrachloroethylene (PCE)		4.7	0.69	8.8	1.3	1.3 J	0.19 J
Trichloroethylene (TCE)		< 1.1	< 0.20	0.91 J	0.17 J	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.
6. C = Duplicate of Basement (B) samples.
7. Samples from 2005 were collected by Shaw Environmental, Inc.

Qualifying Notes:

- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 3-57a
Chemical Testing Results - Indoor Air
17 Tufts Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Collected By:		17 Tufts Street (continued)							
		17TUFTS-C (FD of B)		17TUFTS-1		17TUFTS-B		17TUFTS-C (FD of B)	
		3/24/06		10/2/06		10/2/06		10/2/06	
		GEI		GEI		GEI		GEI	
Analyte	Units:	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)									
Carbon tetrachloride	TO-15	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Chloroform		< 0.98	< 0.20	NT	NT	NT	NT	NT	NT
Chloromethane		1.4 G	0.69 G	NT	NT	NT	NT	NT	NT
Methylene chloride		57.3 G	16.5 G	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.4	0.21	0.88 J	0.13 J	6.1	0.90	6.0	0.89
Trichloroethylene (TCE)		0.70 J	0.13 J	< 1.1	< 0.20	7.0	1.3	7.0	1.3

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.
6. C = Duplicate of Basement (B) samples.
7. Samples from 2005 were collected by Shaw Environmental, Inc.

Qualifying Notes:

- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 3-57a
Chemical Testing Results - Indoor Air
17 Tufts Street
Somerville, Massachusetts

Analyte		17 Tufts Street (continued)					
		Sample Location:		17 TUFTS-1		17 TUFTS-B	
		Sample Name: Sample Date: Collected By:		12/18/06 GEI		12/18/06 GEI	
		Units:		µg/m ³		ppbv	
		Method		µg/m ³		ppbv	
Volatile Organic Compounds (VOCs)		TO-15		µg/m ³		ppbv	
Carbon tetrachloride				0.57 J		0.090 J	
Chloroform				NT		NT	
Chloromethane				NT		NT	
Methylene chloride				NT		NT	
Tetrachloroethylene (PCE)				1.5		0.22	
Trichloroethylene (TCE)				< 1.1		< 0.20	
				0.52 J		0.083 J	
				NT		NT	
				NT		NT	
				NT		NT	
				2.0		0.30	
				0.70 J		0.13 J	
				< 1.3		< 0.20	
				NT		NT	
				NT		NT	
				NT		NT	
				< 1.4		< 0.20	
				< 1.1		< 0.20	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.
6. C = Duplicate of Basement (B) samples.
7. Samples from 2005 were collected by Shaw Environmental, Inc.

Qualifying Notes:

- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 3-57b
Chemical Testing Results - Sub-Slab Soil Vapor
17 Tufts Street
Somerville, Massachusetts

17 Tufts Street - No Sub-Slab Sampling

Chemical Testing Results - Indoor Air
19 Tufts Street
Somerville, Massachusetts

General Notes:

- ### Qualifying Notes:

- Project 04516-3
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Table 3-58a
Chemical Testing Results - Indoor Air
19 Tufts Street
Somerville, Massachusetts

19 Tufts Street (continued)												
Sample Location:			19 TUFTS-1 6/29/06 GEI		19 TUFTS-B 6/29/06 GEI		19 TUFTS-C 6/29/06 GEI		19TUFTS-1 10/10/06 GEI		19TUFTS-B 10/10/06 GEI	
Units:			µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
			Method									
Analyte			TO-15									
Volatile Organic Compounds (VOCs)												
Carbon tetrachloride			0.69 J	0.11 J	0.69 J	0.11 J	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20
Chloroform			5.4	1.1	0.83 J	0.17 J	0.88 J	0.18 J	NT	NT	NT	NT
Chloromethane			2.3	1.1	3.1	1.5	< 0.41	< 0.20	NT	NT	NT	NT
Methylene chloride			14 J+	4.1 J+	14 J+	4.0 J+	13 J+	3.6 J+	NT	NT	NT	NT
Tetrachloroethylene (PCE)			2.4	0.35	4.1	0.60	3.8	0.56	< 1.4	< 0.20	15	2.2
Trichloroethylene (TCE)			1.7	0.31	2.1	0.39	1.6	0.30	< 1.1	< 0.20	6.4	1.2

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.
6. C = Duplicate of Basement (B) samples.
7. Samples from 2005 were collected by Shaw Environmental, Inc.

Qualifying Notes:

- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 3-58a

Chemical Testing Results - Indoor Air

19 Tufts Street

Somerville, Massachusetts

Analyte	Sample Location:		19 Tufts Street (continued)							
	Method	Units:	19 TUFTS-C		19 TUFTS-1		19 TUFTS-B		19 TUFTS-C	
			10/10/06 GEI		12/15/06 GEI		12/15/06 GEI		12/15/06 GEI	
			µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)	TO-15									
Carbon tetrachloride			< 1.3	< 0.20	0.63 J	0.10 J	0.59 J	0.093 J	< 1.3	< 0.20
Chloroform			NT	NT	NT	NT	NT	NT	NT	NT
Chloromethane			NT	NT	NT	NT	NT	NT	NT	NT
Methylene chloride			NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)			6.8	1.0	0.60 J	0.089 J	2.5	0.37	1.4	0.20
Trichloroethylene (TCE)			6.4	1.2	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.
6. C = Duplicate of Basement (B) samples.
7. Samples from 2005 were collected by Shaw Environmental, Inc.

Qualifying Notes:

- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 3-58b
Chemical Testing Results - Sub-Slab Soil Vapor
19 Tufts Street
Somerville, Massachusetts

19 Tufts Street - No Sub-Slab Sampling

Table 3-59a

Chemical Testing Results - Indoor Air

23 Tufts Street

Somerville, Massachusetts

Sample Location: 23 Tufts Street											
Analyte		Sample Name:		Sample Date:		Collected By:		Units:		Method	
		IA-7 (1)		IA-8 (B)		23TUFTS-1		23TUFTS-B		23 TUFTS-1	
		2/23/05		2/23/05		3/24/06		3/24/06		6/28/06	
		Shaw		Shaw		GEI		GEI		GEI	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	
		µg/m³		µg/m³		µg/m³		µg/m³		µg/m³	
		ppbv		ppbv		ppbv		ppbv		ppbv	

Table 3-59a

Chemical Testing Results - Indoor Air

23 Tufts Street

Somerville, Massachusetts

Analyte		23 Tufts Street (continued)									
		Sample Location:		23TUFTS-1		23TUFTS-B		23TUFTS-1		23TUFTS-B	
		Sample Name:		8/3/06		8/3/06		10/2/06		10/2/06	
		Sample Date:		GEI		GEI		GEI		GEI	
		Collected By:									
		Units:									
		Method									
Volatile Organic Compounds (VOCs)		TO-15									
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloromethane		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methylene chloride		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		0.69 J	0.11 J	0.69 J	0.11 J	0.69 J	0.11 J	< 0.20	< 0.20	0.69 J	0.11 J
Tetrachloroethylene (PCE)		9.5	1.4	10	1.5	10	1.5	0.60	1.0	54	6.8
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	0.60 J	0.11 J	0.60 J	0.11 J	< 0.20	< 0.20	0.51 J	0.13 J
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.54 J	0.093 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.
6. Samples from 2005 were collected by Shaw Environmental, Inc.

Qualifying Notes:

- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 3-59b
Chemical Testing Results - Sub-Slab Soil Vapor
23 Tufts Street
Somerville, Massachusetts

23 Tufts Street - No Sub-Slab Sampling

Table 3-59c
Chemical Testing Results - Post-EPEM Installation Indoor Air
23 Tufts Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Collected By:		23 Tufts Street									
		23TUFTS-1 5/26/07 GEI		23TUFTS-B 5/26/07 GEI		23TUFTS-1 11/17/07 GEI		23TUFTS-B 11/17/07 GEI		23TUFTS-1 2/1/08 GEI	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
		Units:									
Analyte	Method										
Volatile Organic Compounds (VOCs) Carbon tetrachloride 1,2-Dichloroethane Tetrachloroethylene (PCE) 1,1,1-Trichloroethane (TCA) Trichloroethylene (TCE)	TO-15	< 1.3	< 0.20	< 1.3	< 0.20	0.75 J	0.12 J	0.69 J	0.11 J	0.59 J	0.094 J
		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	0.26 J	0.064 J	< 0.81	< 0.20
		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
		0.51 J	0.093 J	0.54 J	0.099 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-59c

Chemical Testing Results - Post-EPEM Installation Indoor Air

23 Tufts Street

Somerville, Massachusetts

Sample Location:		23 Tufts Street (continued)									
Sample Name:		23TUFTS-B 2/1/08 GEI		23TUFTS-1A 1/14/09 GEI		23TUFTS-1B 1/14/09 GEI		23TUFTS-B1 1/14/09 GEI		23TUFTS-B2 1/14/09 GEI	
Sample Date:											
Collected By:											
Units:											
Analyte	Method	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)	TO-15	Carbon tetrachloride	< 1.3	< 0.20	0.88 J	0.14 J	0.69 J	0.82 J	0.13 J	0.75 J	0.12 J
		1,2-Dichloroethane	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.20
		Tetrachloroethylene (PCE)	< 1.4	< 0.20	0.62 J	0.091 J	< 1.4	< 0.20	1.4	0.20	1.3 J
		1,1,1-Trichloroethane (TCA)	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1
		Trichloroethylene (TCE)	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1

Table 3-60a
Chemical Testing Results - Indoor Air
25 Tufts Street
Somerville, Massachusetts

Sample Location:		25 Tufts Street											
Sample Name:		IA-3 (1) 2/23/05 Shaw		IA-4 (B) 2/23/05 Shaw		25TUFTS-1 3/23/06 GEI		25TUFTS-B 3/23/06 GEI		25TUFTS-1 8/1/06 GEI			
Sample Date:		Shaw		Shaw		GEI		GEI		GEI			
Collected By:		Shaw		Shaw		GEI		GEI		GEI			
Units:		µg/m ³		ppbv		µg/m ³		ppbv		µg/m ³		ppbv	
Method													
Analyte													
Volatile Organic Compounds (VOCs)		TO-15											
Carbon tetrachloride		< 1.3		< 0.20		< 1.3		< 0.20		< 1.3		< 0.20	
Chloroform		2		0.4		< 0.98		< 0.20		< 0.98		NT	
Chloromethane		0.95		0.46		0.74		0.36		1.1 G		NT	
Methylene chloride		< 1.4 J+		< 0.20 J+		0.49 J		0.14 J		1.6 J+		NT	
Tetrachloroethylene (PCE)		< 1.1		< 0.20		1.6		0.23		3.2		0.29	

Chemical Testing Results - Indoor Air

Somerville, Massachusetts

General Notes:

- ### Qualifying Notes:

- GEI Consultants, Inc.

Table 3-60b

**Chemical Testing Results - Sub-Slab Soil Vapor
25 Tufts Street
Somerville, Massachusetts**

25 Tufts Street - No Sub-Slab Sampling

Table 3-61a
Chemical Testing Results - Indoor Air
27 Tufts Street
Somerville, Massachusetts

Sample Location:				27 Tufts Street										
Analyte	Method	Units:	IA-9 (1)		IA-10 (B)		27TUFTS-1		27TUFTS-B		27 TUFTS-1		27 TUFTS-B	
			2/23/05		2/23/05		3/23/06		3/23/06		6/28/06		6/28/06	
			Shaw		Shaw		GEI		GEI		GEI		GEI	
			µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
			Collected By:											
Volatile Organic Compounds (VOCs)		TO-15												
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	
Chloromethane		1.2	0.59	0.6	0.29	110 G	53.5 G	2.9 G	1.4 G	1.6	0.79	1.3	0.65	
cis-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	
Methylene chloride		0.52 J	0.15 J	0.49 J	0.14 J	2.0 J+	0.59 J+	4.2 J+	1.2 J+	2.2 J+	0.63 J+	2.1 J+	0.60 J+	
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	3.8	0.56	117	17.3	
Trichloroethane, 1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	1.0 J	0.19 J	
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	

Table 3-61a

Chemical Testing Results - Indoor Air

27 Tufts Street

Somerville, Massachusetts

27 Tufts Street (continued)											
Sample Location:											
Sample Name:				27TUFTS-1		27TUFTS-B		27TUFTS-1		27TUFTS-B	
Sample Date:				8/3/06		8/3/06		9/28/06		9/28/06	
Collected By:				GEI		GEI		GEI		GEI	
Units:				ppbv		ppbv		ppbv		ppbv	
Method				µg/m³		µg/m³		µg/m³		µg/m³	
Analyte											
Volatile Organic Compounds (VOCs)				TO-15							
Carbon tetrachloride				< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Chloroethane				< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Chloromethane				NT	NT	NT	NT	NT	NT	NT	NT
cis-1,2-Dichloroethylene				< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Methylene chloride				NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)				0.81 J	< 0.12 J	1.6	0.23	38	5.6	37	5.5
Trichloroethane, 1,1,1- (TCA)				< 1.1	< 0.20	< 1.1	< 0.20	0.55 J	0.10 J	0.38 J	0.069 J
Trichloroethylene (TCE)				< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.45 J	0.083 J

Table 3-61a

Chemical Testing Results - Indoor Air
27 Tufts Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Collected By:		27 Tufts Street							
		27TUFT-1*		27 TUFT-1(2)*		27TUFT-B		27 TUFT-B(2)	
		9/8/08 GEI		9/8/08 GEI		9/8/08 GEI		9/8/08 GEI	
Analyte	Method	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Chloromethane		NT	NT	NT	NT	NT	NT	NT	NT
cis-1,2-Dichloroethylene		3.1 G	0.79 G	< 0.79 G	< 0.20 G	< 0.79	< 0.20	< 0.79	< 0.20
Methylene chloride		NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		114 G	16.8 G	< 1.4 G	< 0.20 G	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane, 1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		5.1 G	0.95 G	< 1.1 G	< 0.20 G	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.
6. Samples ending with -1 and -1(2), -B and -B(2), -1A and -1B, and -B1 and -B2 are field duplicates of each other.
7. Samples from 2005 were collected by Shaw Environmental, Inc.
8. * = Improper duplicate precision, this sampling was repeated on September 26, 2008.

Qualifying Notes:

- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.
- GEI Consultants, Inc.

Table 3-61a
Chemical Testing Results - Indoor Air
27 Tufts Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Collected By:		27 Tufts Street (continued)							
		27 TUFT-1 9/26/08 GEI		27 TUFT-1(2) 9/26/08 GEI		27 TUFT-B 9/26/08 GEI		27 TUFT-B(2) 9/26/08 GEI	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:							
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Chloromethane		NT	NT	NT	NT	NT	NT	NT	NT
cis-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Methylene chloride		NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane, 1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.
6. Samples ending with -1 and -1(2), -B and -B(2), -1A and -1B, and -B1 and -B2 are field duplicates of each other.
7. Samples from 2005 were collected by Shaw Environmental, Inc.
8. * = Improper duplicate precision, this sampling was repeated on September 26, 2008.

Qualifying Notes:

- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.
- GEI Consultants, Inc.

Table 3-61a
Chemical Testing Results - Indoor Air
27 Tufts Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Collected By:		27 Tufts Street (continued)					
		27TUFT-1A 2/4/09 GEI		27 TUFT-1B 2/4/09 GEI		27TUFT-B1 2/4/09 GEI	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:					
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		0.58 J	0.092 J	< 1.3	< 0.20	< 1.3	0.61 J
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Chloromethane		NT	NT	NT	NT	NT	NT
cis-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Methylene chloride		NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		24	3.5	24	3.6	2.9	3.1
Trichloroethane, 1,1,1- (TCA)		1.4	0.25	1.6	0.29	< 1.1	< 0.20
Trichloroethylene (TCE)		0.48 J	0.089 J	0.54 J	0.10 J	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.
6. Samples ending with -1 and -1(2), -B and -B(2), -1A and -1B, and -B1 and -B2 are field duplicates of each other.
7. Samples from 2005 were collected by Shaw Environmental, Inc.
8. * = Improper duplicate precision, this sampling was repeated on September 26, 2008.

Qualifying Notes:

- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.
- GEI Consultants, Inc.

Table 3-61b

Chemical Testing Results - Sub-Slab Soil Vapor

27 Tufts Street

Somerville, Massachusetts

Sample Location:			27 Tufts Street		
Sample Name:			27Tufts-SS1		
Sample Date:			3/9/07		
Units:			GEI		
Analyte	Method	Units:	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$
Volatile Organic Compounds (VOCs)					
Carbon tetrachloride	TO-15		< 1.3	< 0.20	0.69 J
Tetrachloroethylene (PCE)			180	26.5	41
1,1,1-Trichloroethane (TCA)			3.9	0.71	0.50 J
Trichloroethylene (TCE)			2.8	0.52	< 1.1
					ppbv
					0.11 J
					6.1
					0.091 J
					< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-61c

Chemical Testing Results - Post-EPEM Installation Indoor Air

27 Tufts Street

Somerville, Massachusetts

27 Tufts Street - All analytes non-detect 2/25/09 and 3/4/09

Table 3-62a

Chemical Testing Results - Indoor Air
45-47 Tufts Street, Units #1 and #4
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Collected By:		45-47 Tufts Street, Unit 1					
		45-47 TUFT-1 7/25/08 GEI		45-47 TUFT-B 7/25/08 GEI		45TUFTNO1-1 12/11/08 GEI	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:					
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride							
Tetrachloroethylene (PCE)		0.63 J < 1.4	0.10 J < 0.20	0.62 J < 1.4	0.098 J < 0.20	0.62 J < 1.4	0.098 J < 0.20
						< 1.3 < 1.4	< 0.20 < 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-62a

Chemical Testing Results - Indoor Air
45-47 Tufts Street, Units #1 and #4
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Collected By:		45-47 Tufts Street, Unit 4							
		47TUFTU4-1 10/7/08 GEI		47TUFTU4-B 10/7/08 GEI		47TUFTS04-1 1/16/09 GEI		47TUFTS04-B 1/16/09 GEI	
		Units:		Units:		Units:		Units:	
Analyte	Method								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride									
Tetrachloroethylene (PCE)									
		$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	ppbv
		< 1.3	< 0.20	0.59 J	0.093 J	0.59 J	0.093 J	0.57 J	0.091 J
		< 1.4	< 0.20	0.95 J	0.14 J	< 1.4	< 0.20	< 1.4	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-62b

**Chemical Testing Results - Sub-Slab Soil Vapor
45-47 Tufts Street
Somerville, Massachusetts**

45-47 Tufts Street - No Sub-Slab Sampling

Table 3-63a

Chemical Testing Results - Indoor Air

49 Tufts Street

Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Collected By:		49 Tufts Street					
		49TUFTS-1 9/6/07 GEI		49TUFTS-B 9/6/07 GEI		49TUFTS-1 2/19/09 GEI	
		49TUFTS-1 9/6/07 GEI		49TUFTS-B 9/6/07 GEI		49TUFTS-1 2/19/09 GEI	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:					
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		1.0 J	0.16 J	0.94 J	0.15 J	< 1.3	< 0.20
1,2-Dichloroethane		0.45 J	0.11 J	< 0.81	< 0.20	< 0.81	< 0.20
Tetrachloroethylene (PCE)		1.8	0.27	1.8	0.27	< 1.4	< 0.20
1,1,1-Trichloroethane (TCA)		0.60 J	0.11 J	0.42 J	0.077 J	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-64a
Chemical Testing Results - Indoor Air
51-51A Tufts Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Collected By:		51-51A Tufts Street					
		51TUFT-1 7/25/08 GEI		51TUFT-B 7/25/08 GEI		51TUFT-1 12/11/08 GEI	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:					
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		0.69 J	0.11 J	0.63 J	0.10 J	0.60 J	0.096 J
1,2-Dichloroethane		17	4.1	1.1	0.28	1.6	< 0.81
Tetrachloroethylene (PCE)		0.75 J	0.11 J	0.88 J	0.13 J	< 1.4	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-64b

**Chemical Testing Results - Sub-Slab Soil Vapor
51-51A Tufts Street
Somerville, Massachusetts**

51-51A Tufts Street - No Sub-Slab Sampling

Table 3-65a

Chemical Testing Results - Indoor Air

53 Tufts Street

Somerville, Massachusetts

Analyte		53 Tufts Street					
		Sample Location:		53TUFTS-B		53TUFTS-B	
		Sample Name:		11/9/07		2/15/08	
		Sample Date:		GEI		GEI	
Volatile Organic Compounds (VOCs)		Collected By:		µg/m ³		µg/m ³	
Carbon tetrachloride		Units:		ppbv		ppbv	
		Method		0.75 J		0.69 J	
		TO-15		0.12 J		0.11 J	
				< 1.3		< 0.20	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-65b
Chemical Testing Results - Sub-Slab Soil Vapor
 53 Tufts Street
 Somerville, Massachusetts

Sample Location:		53 Tufts Street	
Sample Name:		53TUFTS-SS1	53TUFTS-SS2
Sample Date:		5/9/07	5/9/07
Collected By:		GEI	GEI
Analyte	Method	Units:	
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		µg/m ³	µg/m ³
		ppbv	ppbv
		3.5	1.0 J
		0.52	0.15 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-66a

Chemical Testing Results - Indoor Air
60 Tufts Street, Units #4, #5, #10 and #16
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date: Collected By:		60 Tufts Street, Unit 4								
		60TUFTS-UNIT 4 1/23/07 GEI		60TUFTS-UNIT 4B 1/23/07 GEI		60TUFTS-UNIT 4-1 2/20/08 GEI		60TUFTS-UNIT 4B 2/20/08 GEI		
		Units:		Units:		Units:		Units:		
		Method		Method		Method		Method		
Analyte	Volatile Organic Compounds (VOCs) Carbon tetrachloride Dichloroethane, 1,2- Tetrachloroethylene (PCE) Trichloroethane, 1,1,1- (TCA)	TO-15	0.75 J	0.12 J	0.63 J	0.10 J	< 1.3	< 0.20	< 1.3	< 0.20
			< 0.81	< 0.20	< 0.81	< 0.20	0.97	0.24	< 0.81	< 0.20
			5.8	0.85	4.4	0.65	2.4	0.36	2.0	0.29
			11	2.1	14	2.6	1.5	0.27	1.9	0.35

Table 3-66a

Chemical Testing Results - Indoor Air
60 Tufts Street, Units #4, #5, #10 and #16
Somerville, Massachusetts

Sample Location:		60 Tufts Street, Unit 10		60 Tufts Street, Unit 16		60 Tufts Street, Unit 5	
Sample Name:		60TUFT-UNIT 10		60TUFT-UNIT 16		60TUFT-UNIT 5	
Sample Date:		3/6/08		3/6/08		3/5/09	
Collected By:		GEI		GEI		GEI	
Units:							
Analyte	Method	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	ppbv
Volatile Organic Compounds (VOCs) Carbon tetrachloride Dichloroethane, 1,2- Tetrachloroethylene (PCE) Trichloroethane, 1,1,1- (TCA)	TO-15	0.61 J	0.097 J	< 1.3	< 0.20	< 1.3	< 0.20
		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
		1.9	0.28	< 1.4	< 0.20	0.64 J	0.094 J
		0.82 J	0.15 J	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-66b
Chemical Testing Results - Soil Vapor Samples
60 Tufts Street
Somerville, Massachusetts

Location Name:		60 Tufts Street, Unit 4							
		60TUFT-4-SS1 4/4/07		60TUFT#4-SS1 11/9/07		60TUFT-UNIT4-SS1 1/16/08		60TUFT-UNIT4-SS1 1/17/08	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:							
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		< 2.5	< 0.40	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane, 1,1-		< 1.6	< 0.40	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 1.6	< 0.40	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, 1,1-		< 1.6	< 0.40	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		136	20	213	31.4	89.5	13.2	94.3	13.9
Trichloroethane, 1,1,1- (TCA)		345	63.2	170	31.1	200	36.7	197	36.1
Trichloroethane, 1,1,2-		< 2.2	< 0.40	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 2.1	< 0.40	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.

Qualifying Notes:

- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-66b
Chemical Testing Results - Soil Vapor Samples
60 Tufts Street
Somerville, Massachusetts

Analyte		Location Name:		60 Tufts Street, Unit 4 (continued)						60 Tufts Street			
				60TUFT-UNIT4-SS1		60TUFT-4-SS2		60TUFT#4-SS2		60TUFT-SS1			
				1/21/08	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	11/9/07	µg/m ³	ppbv	4/4/07
Volatile Organic Compounds (VOCs)		Sample Name:		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
		Sample Date:											
		Units:											
		Method											
		TO-15											
Carbon tetrachloride Dichloroethane, 1,1- Dichloroethylene, cis-1,2- Dichloroethylene, 1,1- Tetrachloroethylene (PCE) Trichloroethane, 1,1,1- (TCA) Trichloroethane, 1,1,2- Trichloroethylene (TCE)				< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	5.7	0.9
				< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	23	5.6
				< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	1.1	0.29
				< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	2580	650
				117	17.2	29	4.3	63	9.3	104	15.4	18300	3360
				234	42.9	181	33.1	237	43.4	1.2	0.22	159	29.5
				< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
				< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

Table 3-66b
Chemical Testing Results - Soil Vapor Samples
60 Tufts Street
Somerville, Massachusetts

60 Tufts Street (continued)												
Location Name:		60TUFT-SS10 1/16/08			60TUFT-SS10 1/17/08			60TUFT-SS10 1/21/08			60TUFT-SS13 1/16/08	
Sample Name: Sample Date:		µg/m ³	ppbv		µg/m ³	ppbv		µg/m ³	ppbv		µg/m ³	ppbv
Units:												
Analyte	Method											
TO-15												
Volatile Organic Compounds (VOCs)												
Carbon tetrachloride		< 1.3	< 0.20		< 1.3	< 0.20		< 1.3	< 0.20		0.75 J	0.12 J
Dichloroethane, 1,1-		< 0.81	< 0.20		< 0.81	< 0.20		< 0.81	< 0.20		2.2	0.54
Dichloroethylene, cis-1,2-		1.3	0.33		0.67 J	0.17 J		1.3	0.32		< 0.79	< 0.20
Dichloroethylene, 1,1-		3.7	0.93		1.4	0.35		2.7	0.68		40.8	10.3
Tetrachloroethylene (PCE)		895	132		504	74.3		692	102		237	34.9
Trichloroethane, 1,1,1- (TCA)		14	2.5		5.1	0.94		9.3	1.7		3260 G	597 G
Trichloroethane, 1,1,2-		< 1.1	< 0.20		< 1.1	< 0.20		< 1.1	< 0.20		< 1.1	< 0.20
Trichloroethylene (TCE)		226 G	42.1 G		196	36.5		170	31.6		5.9	1.1

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.

Qualifying Notes:

- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-66b
Chemical Testing Results - Soil Vapor Samples
60 Tufts Street
Somerville, Massachusetts

Location Name:		60 Tufts Street (continued)							
		60TUFT-SS13 1/17/08		60TUFT-SS13 1/21/08		60TUFT-SS14 1/16/08		60TUFT-SS14 1/17/08	
		Sample Name: Sample Date:		Sample Name: Sample Date:		Sample Name: Sample Date:		Sample Name: Sample Date:	
		Units:		Units:		Units:		Units:	
Analyte	Method								
Volatile Organic Compounds (VOCs)									
Carbon tetrachloride	TO-15								
Dichloroethane, 1,1-									
Dichloroethylene, cis-1,2-									
Dichloroethylene, 1,1-									
Tetrachloroethylene (PCE)									
Trichloroethane, 1,1,1- (TCA)									
Trichloroethane, 1,1,2-									
Trichloroethylene (TCE)									
		< 1.3	< 0.20	1.1 J	0.18 J	< 1.3	< 0.20	< 1.3	< 0.20
		1.3	0.32	2.6	0.64	1.2	0.3	0.89	0.22
		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
		23	5.7	49.6	12.5	26	6.5	15	3.8
		249	36.7	214	31.6	2370	349	1970	291
		1010	186	3100	568	2440 G	448 G	1310	241
		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
		4.6	0.86	8.1	1.5	160	29.8	152	28.3

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.

Qualifying Notes:

- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-66b
Chemical Testing Results - Soil Vapor Samples
60 Tufts Street
Somerville, Massachusetts

60 Tufts Street (continued)									
Location Name:		60TUFT-SS14 1/21/08		60TUFT-SS16 1/16/08		60TUFT-SS16 1/17/08		60TUFT-SS16 1/21/08	
Sample Name: Sample Date:		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:							
TO-15									
Volatile Organic Compounds (VOCs)									
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane, 1,1-		1.5	0.36	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, 1,1-		35	8.9	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		2500	368	134	19.8	119	17.5	199	29.3
Trichloroethane, 1,1,1- (TCA)		2240	410	79.7	14.6	14	2.5	72.6	13.3
Trichloroethane, 1,1,2-		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		127	23.7	8.6	1.6	7	1.3	12	2.2

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.

Qualifying Notes:

- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-66b
Chemical Testing Results - Soil Vapor Samples
60 Tufts Street
Somerville, Massachusetts

60 Tufts Street Storage															
Location Name:		60TUFT-SS2 4/4/07			60TUFT-STORAGE5-SS2 1/16/08			60TUFT-STORAGE5-SS2 1/17/08			60TUFT-STORAGE5-SS2 1/21/08		60TUFT-SS3 4/4/07		
Analyte	Method	Units:		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Volatile Organic Compounds (VOCs)															
Carbon tetrachloride	TO-15	< 13	< 2.0	< 1.3	< 0.20	< 1.3	< 0.20	0.63 J	0.10 J	< 13	< 2.0				
Dichloroethane, 1,1-		< 8.1	< 2.0	2.8	0.7	< 0.81	< 0.20	1.1	0.28	5.3 J	1.3 J				
Dichloroethylene, cis-1,2-		< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 7.9	< 2.0				
Dichloroethylene, 1,1-		391	98.5	293	73.9	11	2.9	77.7	19.6	983	248				
Tetrachloroethylene (PCE)		17	2.5	16	2.3	3.5	0.52	11	1.6	41	6				
Trichloroethane, 1,1,1- (TCA)		2970	544	2300	422	85.1	15.6	447	81.9	6060	1110				
Trichloroethane, 1,1,2-		< 11	< 2.0	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 11	< 2.0				
Trichloroethylene (TCE)		28	5.2	25	4.6	4.4	0.82	16	2.9	109	20.2				

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.

Qualifying Notes:

- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-66b
Chemical Testing Results - Soil Vapor Samples
60 Tufts Street
Somerville, Massachusetts

Location Name:		60 Tufts Street MW202 Sub-slab							
Sample Name:		SVT-MW202S 7/17/07		SVT-MW202S 1/16/08		SVT-MW202S 1/17/08		SVT-MW202S 1/21/08	
Sample Date:		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Units:									
Analyte	Method								
TO-15									
Volatile Organic Compounds (VOCs)									
Carbon tetrachloride		< 25	< 4.0	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane, 1,1-		< 16	< 4.0	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 16	< 4.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, 1,1-		11 J	2.8 J	0.79	0.2	0.48 J	0.12 J	0.56 J	0.14 J
Tetrachloroethylene (PCE)		2550	376	252	37.1	366	54.0	403	59.4
Trichloroethane, 1,1,1- (TCA)		537	98.5	28	5.1	27	4.9	35	6.4
Trichloroethane, 1,1,2-		< 22	< 4.0	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		253	47.0	11	2.0	11	2.0	15	2.7

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.

Qualifying Notes:

- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-67a

Chemical Testing Results - Indoor Air

85 Washington Street
Somerville, Massachusetts

Sample Location:		85 Washington Street					
		85WASH-1 11/14/07		85WASH-2 11/14/07		85WASH-AUDI 2/12/08	
Analyte	Units:	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	ppbv	$\mu\text{g}/\text{m}^3$	ppbv
Volatile Organic Compounds (VOCs)	Method TO-15						
Carbon tetrachloride		0.69 J 1.2 J	0.11 J 0.17 J	< 1.3 1.4	< 0.20 0.21	0.69 J < 1.4	0.11 J < 0.20
Tetrachloroethylene (PCE)							

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. AUDI = Auditorium.
6. PARK = Indoor parking lot attached to the building.
7. 85WASH-1 sample from November 14, 2007 was collected in the auditorium.
8. 85WASH-2 sample from November 14, 2007 was collected in the indoor parking lot.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-67a

Chemical Testing Results - Indoor Air

85 Washington Street
Somerville, Massachusetts

Sample Location:		85 Washington Street (continued)							
		85WASH-AUDI				85WASH-PARK			
		8/18/08		2/4/09		8/18/08		2/4/09	
Analyte	Sample Name: Sample Date:	Units:		Units:		Units:		Units:	
		Method		Method		Method		Method	
Volatile Organic Compounds (VOCs) Carbon tetrachloride Tetrachloroethylene (PCE)		TO-15							
		0.75 J < 1.4	0.12 J < 0.20	0.69 J 0.60 J	0.11 J 0.089 J	< 1.3 < 1.4	< 0.20 < 0.20	0.60 J < 1.4	0.096 J < 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. AUDI = Auditorium.
6. PARK = Indoor parking lot attached to the building.
7. 85WASH-1 sample from November 14, 2007 was collected in the auditorium.
8. 85WASH-2 sample from November 14, 2007 was collected in the indoor parking lot.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-67b

Chemical Testing Results - Sub-Slab Soil Vapor
85 Washington Street
Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		85 Washington Street	
		85 Wash-SS2	
		3/29/07	
Analyte	Method	Units:	
Volatile Organic Compounds (VOCs)	TO-15	$\mu\text{g}/\text{m}^3$	ppbv
1,2-Dichloroethane			
Tetrachloroethylene (PCE)			
		0.53 J 1.0 J	0.13 J 0.15 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-68a

Chemical Testing Results - Indoor Air

97 Washington Street

Somerville, Massachusetts

Analyte		97 Washington Street					
		Sample Location:		97WASH1		97WASHB	
		Sample Name:		6/14/07		6/14/07	
		Sample Date:		ppbv		ppbv	
		Units:		$\mu\text{g}/\text{m}^3$		$\mu\text{g}/\text{m}^3$	
		Method					
Volatile Organic Compounds (VOCs)		TO-15					
Carbon tetrachloride				0.69 J		0.69 J	
Tetrachloroethylene (PCE)				1.1 JG		1.4 G	
1,1,1-Trichloroethane (TCA)				0.52 J		0.76 J	
				0.11 J		0.11 J	
				0.16 JG		0.20 G	
				0.096 J		0.14 J	
				0.60 J		0.60 J	
				1.5		1.5	
				0.096 J		0.096 J	
				0.63 J		0.63 J	
				1.7		1.7	
				0.82 J		0.82 J	
				0.10 J		0.10 J	
				0.25		0.25	
				0.15 J		0.15 J	

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

- G Duplicate precision outside control limits.
- J laboratory reporting limit and is estimated.

Table 3-68a

Chemical Testing Results - Indoor Air

97 Washington Street

Somerville, Massachusetts

Sample Location:		97 Washington Street (continued)							
Sample Name:		97WASH-1 2/5/08		97WASH-B 2/5/08		97WASH-1 6/25/08		97WASH-B 6/25/08	
Sample Date:									
Units:		μg/m ³		ppbv		μg/m ³		ppbv	
Method						μg/m ³		ppbv	
TO-15									
Volatile Organic Compounds (VOCs)									
Carbon tetrachloride		< 1.3		< 0.20		< 1.3		< 0.20	
Tetrachloroethylene (PCE)		1.1 J		0.16 J		0.95 J		1.8	
1,1,1-Trichloroethane (TCA)		0.60 J		0.11 J		0.65 J		1.3	
						1.1		0.20	
						0.12 J		0.27	
						0.12 J		0.24	

Table 3-68b
Chemical Testing Results - Sub-Slab Soil Vapor
97 Washington Street
Somerville, Massachusetts

Sample Location:		97 Washington Street			
Sample Name:		97 WASH-SS2			
Sample Date:		4/23/2007			
Analyte	Units:	µg/m³	ppbv	µg/m³	ppbv
	Method				
	TO-15				
Volatile Organic Compounds (VOCs)					
Tetrachloroethylene (PCE)		2.3	0.34	1.8 J	0.26 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-69a

Chemical Testing Results - Indoor Air

103 Washington Street

Somerville, Massachusetts

103 Washington Street - No Indoor Air Sampling

Table 3-69b

Chemical Testing Results - Sub-Slab Soil Vapor

103 Washington Street
Somerville, Massachusetts

Sample Location:		103 Washington Street	
Sample Name:		103WASH-SS1	
Sample Date:		5/8/2007	
Analyte	Method	Units:	
Volatile Organic Compounds (VOCs)	TO-15		
Carbon tetrachloride		0.69 J	0.11 J
trans-1,2-Dichloroethylene		0.95	0.24
cis-1,2-Dichloroethylene		15	3.7
Tetrachloroethylene (PCE)		2330	343
1,1,1-Trichloroethane (TCA)		1.0 J	0.19 J
Trichloroethylene (TCE)		85.5	15.9

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-70a

Chemical Testing Results - Indoor Air
105-107 Washington Street
Somerville, Massachusetts

Analyte		Sample Location: Sample Name: Sample Date: Units:		105-107 Washington Street	
				105-107WASH-1	105-107WASH-B
				2/20/09	2/20/09
				µg/m ³	ppbv
Volatile Organic Compounds (VOCs)		Method		µg/m ³	ppbv
Tetrachloroethylene (PCE)		TO-15		0.092 J	0.62 J
				1.7	0.25

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-70b

Chemical Testing Results - Sub-Slab Soil Vapor

105-107 Washington Street

Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		105-107 Washington Street			
		105WASH-SS1 5/8/2007		105WASH-SS2 5/8/2007	
		µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method	Units:			
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		0.60 J	0.096 J	< 1.3	< 0.20
1,1-Dichloroethane		< 0.81	< 0.20	3.0	0.75
1,1-Dichloroethylene		< 0.79	< 0.20	0.99	0.25
cis-1,2-Dichloroethylene		< 0.79	< 0.20	58.3	14.7
Tetrachloroethylene (PCE)		40	5.9	479	70.6
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	24	4.4
Trichloroethylene (TCE)		0.91 J	0.17 J	53	9.8
Vinyl chloride		< 0.51	< 0.20	0.61	0.24

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 3-71a

Chemical Testing Results - Indoor Air

111 Washington Street

Somerville, Massachusetts

111 Washington Street - No Indoor Air Sampling

Chemical Testing Results - Sub-Slab Soil Vapor

Somerville, Massachusetts

General Notes:

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Table 3-72a

Chemical Testing Results - Indoor Air

121 Washington Street

Somerville, Massachusetts

Sample Location: Sample Name: Sample Date:		121 Washington Street									
		121WASH-1A 11/6/07		121WASH-1B 11/6/07		121WASH-1 2/11/08		121WASH-1A 6/9/08		121WASH-1B 6/9/08	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
		Units:									
Analyte	Method										
Volatile Organic Compounds (VOCs)	TO-15										
Carbon tetrachloride		0.82 J	0.13 J	0.88 J	0.14 J	0.69 J	0.11 J	0.75 J	0.12 J	0.75 J	0.12 J
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	1.3	0.24	1.4	0.26
Tetrachloroethylene (PCE)		1.5	0.22	1.4	0.20	< 1.4	< 0.20	1.6	0.24	1.6	0.24

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. Sampling location -1A corresponds to the catering area, and location -1B is in the kitchen.

Qualifying Note:

- J The reported result is below the laboratory reporting limit and is estimated.

Table 3-72b

Chemical Testing Results - Sub-Slab Soil Vapor

121 Washington Street

Somerville, Massachusetts

Sample Location:		121 Washington Street	
Sample Name:		121 Wash-SS1	
Sample Date:		4/11/07	
Analyte	Method	Units:	
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)			
1,1,1-Trichloroethane (TCA)			
		$\mu\text{g}/\text{m}^3$	ppbv
		12	1.7
		0.51 J	0.093 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 4-1
Sub-Slab Depressurization System (SSDS)
Monitoring Results, 50 Tufts Street
50 Tufts Street
Somerville, Massachusetts

Monitoring Point	Date:	4/30/2007		5/1/2007		5/3/2007		5/4/2007		5/5/2007		5/7/2007		5/10/2007		5/14/2007		5/18/2007		5/25/2007		6/1/2007		6/3/2007	
	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	
West Header	-4.59	--	--	--	--	--	--	--	--	--	--	--	-4.42	112	--	--	-4.48	72.5	-4.37	53	-3.6	84.9	--	--	
Center Header	-4.63	--	--	--	--	--	--	--	--	--	--	--	-4.53	168	--	--	-4.59	137.4	-4.42	230.1	-3.65	180.4	--	--	
East Header	-1.96	--	--	--	--	--	--	--	--	--	--	--	-1.94	507	--	--	-1.92	292	-1.97	306	-1.64	593	--	--	
North Header	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
South Header	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Combined Influent	-7.98	70	--	251	--	229	--	192	-0.94	169	--	201	-7.55	205	--	--	-8.18	153	-7.57	126.7	-6.23	170.4	--	139	
Lead Carbon Effluent	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	<-10.0	2.1	<-10	40.3	--	--	--	43	
Secondary Carbon Effluent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
System Discharge	6.3	0	--	0	--	0	--	0	6.41	0.8	--	0	4.5	1.4	--	--	5.85	2.8	5.13	0.9	4.14	0	N/A	0	
EP-W1	--	--	--	--	--	--	--	--	--	--	--	--	-4.05	900	--	--	--	--	--	--	--	--	--	--	
EP-W2	--	--	--	--	--	--	--	--	--	--	--	--	-3.35	186.9	--	--	--	--	--	--	--	--	--	--	
EP-W3	--	--	--	--	--	--	--	--	--	--	--	--	-2.74	26.2	--	--	--	--	--	--	--	--	--	--	
EP-W4	--	--	--	--	--	--	--	--	--	--	--	--	-2.06	8.2	--	--	--	--	--	--	--	--	--	--	
EP-W5	--	--	--	--	--	--	--	--	--	--	--	--	-1.71	4.4	--	--	--	--	--	--	--	--	--	--	
EP-W6	--	--	--	--	--	--	--	--	--	--	--	--	-1.79	13.3	--	--	--	--	--	--	--	--	--	--	
EP-W7	--	--	--	--	--	--	--	--	--	--	--	--	-1.76	13.7	--	--	--	--	--	--	--	--	--	--	
EP-W8	-1.94	--	-1.92	--	--	--	--	--	--	--	--	--	-1.8	174	-1.6	--	--	--	--	--	--	--	--	--	
EP-C1	--	--	--	--	--	--	--	--	--	--	--	--	-4.13	67.7	--	--	--	--	--	--	--	--	--	--	
EP-C2	--	--	--	--	--	--	--	--	--	--	--	--	-4.13	440	--	--	--	--	--	--	--	--	--	--	
EP-C3	--	--	--	--	--	--	--	--	--	--	--	--	-3.94	99	--	--	--	--	--	--	--	--	--	--	
EP-C4	--	--	--	--	--	--	--	--	--	--	--	--	-3.73	2.16	--	--	--	--	--	--	--	--	--	--	
EP-C5	--	--	--	--	--	--	--	--	--	--	--	--	-3.55	366	--	--	--	--	--	--	--	--	--	--	
EP-C6	--	--	--	--	--	--	--	--	--	--	--	--	-3.31	10.7	--	--	--	--	--	--	--	--	--	--	
EP-C7	--	--	--	--	--	--	--	--	--	--	--	--	-2.93	57.2	-2.64	--	--	--	--	--	--	--	--	--	
EP-C8	-3.15	--	-3.11	--	--	--	--	--	--	--	--	--	-3.13	69.9	--	--	--	--	--	--	--	--	--	--	
EP-C9	-3.21	--	-3.17	--	--	--	--	--	--	--	--	--	-3.17	162	--	--	--	--	--	--	--	--	--	--	
EP-E1	--	--	--	--	--	--	--	--	--	--	--	--	-1.81	2.42	--	--	--	--	--	--	--	--	--	--	
EP-E2	--	--	--	--	--	--	--	--	--	--	--	--	-1.8	72	--	--	--	--	--	--	--	--	--	--	
EP-E3	--	--	--	--	--	--	--	--	--	--	--	--	-1.68	97.7	--	--	--	--	--	--	--	--	--	--	
EP-E4	--	--	--	--	--	--	--	--	--	--	--	--	-1.71	23.4	--	--	--	--	--	--	--	--	--	--	
EP-E5	-1.72	--	-1.74	--	--	--	--	--	--	--	--	--	-1.71	4.4	-1.61	--	--	--	--	--	--	--	--	--	
SS3	-0.29	--	-0.29	--	--	--	--	--	--	--	--	--	-0.23	409	-0.255	--	--	--	--	--	--	--	--	--	
SS4	-0.68	--	-0.65	--	--	--	--	--	--	--	--	--	-0.58	875	-0.592	--	--	--	--	--	--	--	--	--	
SS20	--	--	--	--	--	--	--	--	--	--	--	--	-0.12	--	-0.098	--	--	--	--	--	--	--	--	--	
SS21	--	--	--	--	--	--	--	--	--	--	--	--	-0.52	--	-0.486	--	--	--	--	--	--	--	--	--	
SS22	--	--	--	--	--	--	--	--	--	--	--	--	-0.54	--	-0.489	--	--	--	--	--	--	--	--	--	
SS23	--	--	--	--	--	--	--	--	--	--	--	--	-0.31	--	-0.304	--	--	--	--	--	--	--	--	--	
SS24	--	--	--	--	--	--	--	--	--	--	--	--	-0.38	--	-0.396	--	--	--	--	--	--	--	--	--	
SS25	--	--	--	--	--	--	--	--	--	--	--	--	-0.81	--	-0.772	--	--	--	--	--	--	--	--	--	
SS26	--	--	--	--	--	--	--	--	--	--	--	--	-0.51	--	-0.448	--	--	--	--	--	--	--	--	--	
SS27	--	--	--	--	--	--	--	--	--	--	--	--	-0.18	--	-0.152	--	--	--	--	--	--	--	--	--	

General Notes:

1. The sub-slab depressurization system (SSDS) began operating on April 30, 2007.
 2. VOC = volatile organic compound.
 3. ppm = parts per million.
 4. in. w.c. = inches water column.
 5. "--" = not measured.
 6. NI = Not yet installed.
 7. The soil vapor extraction (SVE) system began operating on August 22, 2007.
 8. VOC concentrations were measured using a photoionization detector with a detection limit of 0.5 ppm.
 9. N/A = Not Applicable
 10. Carbon treatment system was modified from operating under negative pressure to operating under pressure on June 7, 2007.
 11. Refer to Figure 4-1 for the SSDS Monitoring locations.
- * Results obtained during SVE diagnostic test.

Table 4-1
Sub-Slab Depressurization System (SSDS)
Monitoring Results, 50 Tufts Street
50 Tufts Street
Somerville, Massachusetts

Monitoring Point	Date:	6/8/2007		6/12/2007		6/19/2007		6/26/2007		7/3/2007		7/10/2007		7/17/2007		7/24/2007		7/31/2007*		7/31/2007		8/7/2007	
		Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)
West Header		-4.85	56.5	-4.51	56.4	-4.55	63.7	-4.81	15.3	-4.65	73	-4.77	16.7	-4.55	45.1	-4.55	87.6	-5.86	16	-4.7	43.5	-4.65	50.3
Center Header		-4.89	112.9	-4.57	116.1	-4.59	127.1	-4.87	40.3	-4.84	157.3	-4.87	33.8	-4.65	101.8	-4.58	155.1	-6.08	31.9	-4.93	141.1	-4.83	136.2
East Header		-2.12	219.4	-1.98	296	-1.97	217.4	-2.02	64.8	-1.93	332	-1.98	66.8	-1.88	195.6	-1.89	266	-3.75	55.9	-1.85	171.7	-1.78	222.2
North Header		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
South Header		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Combined Influent		-8.57	98.6	-7.93	92.3	-8.01	100.5	-8.44	27.6	-8.45	138	-8.51	31.2	-8.13	82.2	-8.21	127.5	-9.56	29.3	-8.37	89.7	-8.39	100.7
Lead Carbon Effluent		18.05	140	--	--	--	--	10.31	0	10.4	4.6	10.33	13.7	--	--	--	--	--	--	--	--	--	--
Secondary Carbon Effluent		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
System Discharge		N/A	0	N/A	0.5	N/A	0.3	N/A	0	N/A	0	N/A	0	N/A	0.2	N/A	1.1	N/A	0	N/A	0	N/A	0
EP-W1		--	--	-4.207	365	-4.134	296	-4.441	157.7	--	--	--	--	--	--	-4.142	498	--	--	--	--	--	--
EP-W2		--	--	-3.329	102.6	-3.323	111.9	-3.498	30.5	--	--	--	--	--	--	-3.267	145.9	--	--	--	--	--	--
EP-W3		--	--	-2.697	11.3	-2.641	15.1	-2.801	3.1	--	--	--	--	--	--	-2.55	107.2	--	--	--	--	--	--
EP-W4		--	--	-1.988	4.3	-1.937	5.8	-2.034	0.9	--	--	--	--	--	--	-1.856	10.6	--	--	--	--	--	--
EP-W5		--	--	-1.632	1.6	-1.568	2	-1.661	0	--	--	--	--	--	--	-1.457	3.3	--	--	--	--	--	--
EP-W6		--	--	-1.734	1.4	-1.678	1.8	-1.757	0	--	--	--	--	--	--	-1.594	3.3	--	--	--	--	--	--
EP-W7		--	--	-1.675	4.1	-1.627	4	-1.713	0.5	--	--	--	--	--	--	-1.547	5.2	--	--	--	--	--	--
EP-W8		--	--	-1.714	47.4	-1.669	53.4	-1.749	11.3	--	--	--	--	--	--	-1.557	55.3	--	--	--	--	--	--
EP-C1		--	--	-4.192	17.8	-4.191	23.2	-4.453	5.4	--	--	--	--	--	--	-4.239	213	--	--	--	--	--	--
EP-C2		--	--	-4.203	157.2	-4.22	140.7	-4.547	36.2	--	--	--	--	--	--	-4.265	127.5	--	--	--	--	--	--
EP-C3		--	--	-3.985	80.9	-3.987	102.4	-4.238	28.6	--	--	--	--	--	--	-4.003	111.7	--	--	--	--	--	--
EP-C4		--	--	-3.773	1653	-3.734	500	-3.994	273	--	--	--	--	--	--	-3.789	3000	--	--	--	--	--	--
EP-C5		--	--	-3.565	180.4	-3.55	177.9	-3.79	60.5	--	--	--	--	--	--	-3.596	188.1	--	--	--	--	--	--
EP-C6		--	--	-3.287	2.8	-3.272	4.1	-3.494	0.3	--	--	--	--	--	--	-3.27	5.8	--	--	--	--	--	--
EP-C7		--	--	-2.768	33.5	-2.767	44.1	-2.913	12.9	--	--	--	--	--	--	-2.725	59.4	--	--	--	--	--	--
EP-C8		--	--	-3.082	54.4	-3.071	67.9	-3.224	14.4	--	--	--	--	--	--	-3.071	65.4	--	--	--	--	--	--
EP-C9		--	--	-3.151	88.5	-3.127	101.2	--	--	--	--	--	--	--	--	-3.121	119	--	--	--	--	--	--
EP-E1		--	--	-1.856	1179	-1.841	500	-1.903	111	--	--	--	--	--	--	-1.754	2000	--	--	--	--	--	--
EP-E2		--	--	-1.849	51	-1.813	53.5	-1.867	11.7	--	--	--	--	--	--	-1.71	62.9	--	--	--	--	--	--
EP-E3		--	--	-1.738	10.2	-1.712	12.4	-1.761	1.8	--	--	--	--	--	--	-1.603	67.9	--	--	--	--	--	--
EP-E4		--	--	-1.768	7	-1.735	9.5	-1.77	1.2	--	--	--	--	--	--	-1.635	11.5	--	--	--	--	--	--
EP-E5		--	--	-1.757	2.3	-1.725	2.1	-1.779	0	--	--	--	--	--	--	-1.631	3.6	--	--	--	--	--	--
SS3		--	--	-0.272	170.9	-0.287	114.3	-0.323	27.9	--	--	--	--	--	--	-0.294	64.2	--	--	--	--	--	--
SS4		--	--	-0.773	1.6	-0.776	--	-0.827	25.5	--	--	--	--	--	--	-0.835	163	--	--	--	--	--	--
SS20		--	--	-0.096	2158	-0.103	500	-0.115	434	--	--	--	--	--	--	-0.125	3000	--	--	--	--	--	--
SS21		--	--	-0.598	471	-0.598	259.7	-0.635	76.5	--	--	--	--	--	--	-0.607	589	--	--	--	--	--	--
SS22		--	--	-0.572	1010	-0.573	335	-0.626	73.9	--	--	--	--	--	--	-0.595	1200	--	--	--	--	--	--
SS23		--	--	-0.345	17.6	-0.328	58.9	-0.367	12.9	--	--	--	--	--	--	-0.368	61.6	--	--	--	--	--	--
SS24		--	--	-0.424	1.2	-0.425	0.4	-0.466	0.2	--	--	--	--	--	--	-0.446	2	--	--	--	--	--	--
SS25		--	--	-0.803	532	-0.783	257.7	-0.821	66.5	--	--	--	--	--	--	-0.78	265	--	--	--	--	--	--
SS26		--	--	-0.497	3.2	-0.472	1.9	-0.539	0.2	--	--	--	--	--	--	-0.475	3	--	--	--	--	--	--
SS27		--	--	-0.179	45.2	-0.178	37.5	-0.195	7.9	--	--	--	--	--	--	-0.184	103.5	--	--	--	--	--	--

General Notes:

1. The sub-slab depressurization system (SSDS) began operating on April 30, 2007.
 2. VOC = volatile organic compound.
 3. ppm = parts per million.
 4. in. w.c. = inches water column.
 5. "--" = not measured.
 6. NI = Not yet installed.
 7. The soil vapor extraction (SVE) system began operating on August 22, 2007.
 8. VOC concentrations were measured using a photoionization detector with a detection limit of 0.5 ppm.
 9. N/A = Not Applicable
 10. Carbon treatment system was modified from operating under negative pressure to operating under pressure on June 7, 2007.
 11. Refer to Figure 4-1 for the SSDS Monitoring locations.
- * Results obtained during SVE diagnostic test.

Table 4-1
Sub-Slab Depressurization System (SSDS)
Monitoring Results, 50 Tufts Street
50 Tufts Street
Somerville, Massachusetts

Monitoring Point	Date:	8/19/2007		8/20/2007		8/21/2007		8/22/2007		8/23/2007		8/24/2007		8/28/2007		9/4/2007		9/11/2007		9/18/2007		9/25/2007	
	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	Pressure (in. w.c)	VOC (ppm)	
West Header	-4.3	61.1	-4.83	56	-4.72	46	-3.59	46	-4.37	41	-4.36	--	-4.27	38	-4.28	60	-4.15	50.5	-4.35	49	-4.24	36	
Center Header	-4.5	157	-4.58	131	-4.54	113	-3.61	118	-4.3	94	-4.24	--	-4.15	72	-4.23	113	-4.07	90.9	-4.29	96	-4.17	70	
East Header	-1.4	239.6	-1.87	218	-1.86	196	-3.63	176	-2.01	160	-2.03	--	-1.92	125	-2.13	199	-2.05	157.1	-1.96	159	-1.96	136	
North Header	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
South Header	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Combined Influent	-8.2	114	-6.25	119	-6.18	104	-5.7	234	-5.81	208	-5.78	--	-5.68	158	-5.74	209	-5.56	175.9	-5.82	178	-5.69	136	
Lead Carbon Effluent	9.5	18.1	--	21.9	10.17	28	--	19.4	8.61	36	--	--	--	--	--	52	10.89	0	11.12	9	10.52	51	
Secondary Carbon Effluent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
System Discharge	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	--	N/A	0	N/A	0.2	N/A	0	N/A	0	N/A	0	
EP-W1	--	--	--	--	--	--	--	--	-3.993	228	--	--	-3.814	225	-3.784	266	-3.789	950	-3.751	224	-3.633	232	
EP-W2	--	--	--	--	--	--	--	--	-3.109	85	--	--	-3.016	115	-2.962	117	-2.913	170	-2.873	85	-2.864	89.4	
EP-W3	--	--	--	--	--	--	--	--	-2.348	19	--	--	-2.305	38	-2.235	26	-2.179	48	-2.162	27	-2.163	23.6	
EP-W4	--	--	--	--	--	--	--	--	-1.712	3	--	--	-1.676	5	-1.611	2.5	-1.569	14.4	-1.585	0	-1.584	0.3	
EP-W5	--	--	--	--	--	--	--	--	-1.315	0	--	--	-1.308	15	-1.247	1	-1.178	0.3	-1.219	0	-1.221	0	
EP-W6	--	--	--	--	--	--	--	--	-1.471	0	--	--	-1.411	8	-1.382	1	-1.329	0	-1.343	0	-1.345	0	
EP-W7	--	--	--	--	--	--	--	--	-1.417	0	--	--	-1.376	5	-1.345	2	-1.279	0.5	-1.287	0	-1.308	0.2	
EP-W8	--	--	-1.553	--	-1.518	--	-1.381	--	-1.447	21	-1.44	--	-1.408	20	-1.364	20	-1.298	17.2	-1.316	11	-1.331	11	
EP-C1	--	--	--	--	--	--	--	--	-3.896	11	--	--	-3.762	30	-3.733	10.3	-3.724	86	-3.702	8	-3.591	10.5	
EP-C2	--	--	--	--	--	--	--	--	-3.942	64	--	--	-3.786	83	-3.754	80	-3.753	344	-3.726	70	-3.637	66	
EP-C3	--	--	--	--	--	--	--	--	-3.676	72	--	--	-3.512	90	-3.525	102	-3.507	451	-3.476	55	-3.398	76.7	
EP-C4	--	--	--	--	--	--	--	--	-3.494	2220	--	--	-3.352	1910	-3.349	1700	-3.335	2500	-3.252	1330	-3.215	1230	
EP-C5	--	--	--	--	--	--	--	--	-3.282	122	--	--	-3.137	128	-3.14	148	-3.131	145.3	-3.109	115	-3.085	120.1	
EP-C6	--	--	--	--	--	--	--	--	-3.039	0	--	--	-2.896	8	-2.92	1.3	-2.867	1.3	-2.869	0	-2.772	0	
EP-C7	--	--	--	--	--	--	--	--	-2.562	26	--	--	-2.424	15	-2.457	15	-2.419	10	-2.383	8	-2.381	5.3	
EP-C8	--	--	-2.954	--	-2.936	--	-2.712	--	-2.836	24	--	--	-2.712	18	-2.736	16.2	-2.665	12.2	-2.638	7.5	-2.634	6.5	
EP-C9	--	--	--	--	--	--	--	--	-2.875	42	-2.8	--	-2.743	20	-2.775	10	-2.707	7	-2.672	4.5	-2.662	3.8	
EP-E1	--	--	--	--	--	--	--	--	-1.843	528	--	--	-1.815	480	-1.923	560	-1.976	1000	-1.744	460	-1.761	457	
EP-E2	--	--	--	--	--	--	--	--	-1.822	26	--	--	-1.755	43	-1.886	33	-1.865	109	-1.691	21	-1.717	22.1	
EP-E3	--	--	--	--	--	--	--	--	-1.69	5	--	--	-1.633	13	-1.751	4.3	-1.743	9	-1.556	2	-1.591	1.5	
EP-E4	--	--	--	--	--	--	--	--	-1.708	3	--	--	-1.641	4	-1.759	3.2	-1.724	2.5	-1.584	1	-1.613	1.2	
EP-E5	--	--	-1.583	--	-1.553	--	-1.603	--	-1.697	0	--	--	-1.653	2.5	-1.768	1	-1.712	0.5	-1.594	0	-1.623	0	
SS3	--	--	--	--	--	--	--	--	-0.548	79	--	--	--	--	-0.259	121	-0.284	2000	-0.287	64	-0.568	107	
SS4	--	--	--	--	--	--	--	--	-0.773	16	--	--	--	--	-0.739	107	-0.76	1700	-0.724	107	-0.716	87	
SS20	--	--	-0.098	--	-0.101	--	-0.094	--	-0.103	6100	-0.13	--	-0.104	5260	-0.117	1800	-0.119	4000	-0.112	1200	-0.107	1600	
SS21	--	--	-0.585	--	-0.597	--	-0.568	--	-0.594	439	--	--	-0.588	610	-0.611	572	-0.568	1200	-0.475	342	-0.587	390	
SS22	--	--	-0.549	--	-0.577	--	-0.528	--	-0.543	3	--	--	-0.533	18	-0.528	0.5	-0.487	0	-0.531	0	-0.502	209	
SS23	--	--	-0.339	--	-0.332	--	-0.321	--	-0.324	29	--	--	-0.321	53	-0.328	42	-0.294	41.1	-0.312	27	-0.315	31.9	
SS24	--	--	-0.443	--	-0.443	--	--	--	-0.429	0	--	--	-0.414	23	-0.414	0.5	-0.401	0	-0.398	0	-0.417	0	
SS25	--	--	-0.738	--	-0.741	--	-0.709	--	-0.742	197	-0.72	--	-0.709	68	-0.719	229	-0.705	252	-0.697	192	-0.717	182	
SS26	--	--	-0.447	--	-0.437	--	--	--	-0.431	3	--	--	-0.442	15	-0.42	1.2	-0.396	0	-0.364	0	-0.408	0	
SS27	--	--	-0.169	--	-0.168	--	-0.176	--	-0.174	11	-0.19	--	-0.18	25	-0.167	1.7	-0.17	14.6	-0.166	9	-0.167	10.1	

General Notes:

1. The sub-slab depressurization system (SSDS) began operating on April 30, 2007.
2. VOC = volatile organic compound.
3. ppm = parts per million.
4. in. w.c. = inches water column.
5. "--" = not measured.
6. NI = Not yet installed.
7. The soil vapor extraction (SVE) system began operating on August 22, 2007.
8. VOC concentrations were measured using a photoionization detector with a detection limit of 0.5 ppm.
9. N/A = Not Applicable
10. Carbon treatment system was modified from operating under negative pressure to operating under pressure on June 7, 2007.
11. Refer to Figure 4-1 for the SSDS Monitoring locations.
- * Results obtained during SVE diagnostic test.

Table 4-1
Sub-Slab Depressurization System (SSDS)
Monitoring Results, 50 Tufts Street
50 Tufts Street
Somerville, Massachusetts

Monitoring Point	Date: 10/2/2007		10/16/2007		10/23/2007		10/30/2007		11/9/2007		11/13/2007		11/19/2007		11/26/2007		12/3/2007		12/7/2007		12/12/2007	
	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)
West Header	-4.69	37.1	-4.05	36.8	-4.21	32	-4	28	-4.07	29.4	-4.07	29.4	-4.197	26.8	-3.39	20.1	-4.1	29.3	-4.02	21.8	-3.97	22.5
Center Header	-4.62	72.5	-4.01	63.2	-4.1	69	-3.96	57.6	-4.08	84.1	-4.08	84.1	-4.145	79.3	-3.38	61.2	-4	121.5	-3.98	80.5	-3.92	86.4
East Header	-2.06	108	-1.78	121	-1.96	104	-1.68	93	-1.7	86	-1.7	86	-1.691	85	-1.55	75.8	-1.61	99.3	-1.57	79.6	-1.61	88.5
North Header	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
South Header	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Combined Influent	-6.41	121	-5.54	120	-5.67	94	-5.51	95.5	-5.58	101.4	-5.58	101.4	-5.624	91.7	-4.63	73.8	-5.43	97.3	-5.52	98.5	-5.39	77.9
Lead Carbon Effluent	--	52	15.16	0.063	15.68	6.1	15.85	12.5	15.81	37.3	15.81	37.3	16.45	51.5	--	0	--	0	--	0	--	0
Secondary Carbon Effluent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
System Discharge	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0
EP-W1	-4.125	188	--	--	--	--	--	--	--	--	-3.645	150.2	--	--	--	--	--	--	-3.52	--	--	--
EP-W2	-3.128	74	--	--	--	--	--	--	--	--	-2.733	59.1	--	--	--	--	--	--	-2.63	--	--	--
EP-W3	-2.319	23.1	--	--	--	--	--	--	--	--	-1.94	20.1	--	--	--	--	--	--	-1.86	--	--	--
EP-W4	-1.663	0.2	--	--	--	--	--	--	--	--	-1.388	0	--	--	--	--	--	--	-1.33	--	--	--
EP-W5	-1.271	0	--	--	--	--	--	--	--	--	-1.03	0	--	--	--	--	--	--	-0.96	--	--	--
EP-W6	-1.434	0	--	--	--	--	--	--	--	--	-1.17	0	--	--	--	--	--	--	-1.11	--	--	--
EP-W7	-1.378	0.3	--	--	--	--	--	--	--	--	-1.12	0.2	--	--	--	--	--	--	-1.03	--	--	--
EP-W8	-1.403	9.7	--	--	--	--	--	--	--	--	-1.13	5.3	--	--	--	--	--	--	-1.06	--	--	--
EP-C1	-4.037	10.5	--	--	--	--	--	--	--	--	-3.62	25	--	--	--	--	--	--	-3.498	--	--	--
EP-C2	-4.092	56	--	--	--	--	--	--	--	--	-3.6	78.9	--	--	--	--	--	--	-3.514	--	--	--
EP-C3	-3.804	48	--	--	--	--	--	--	--	--	-3.275	20	--	--	--	--	--	--	-3.25	--	--	--
EP-C4	-3.558	--	--	--	--	--	--	--	--	--	-3.01	2510	--	--	--	--	--	--	-2.89	--	--	--
EP-C5	-3.398	87	--	--	--	--	--	--	--	--	-2.83	86.5	--	--	--	--	--	--	-2.637	--	--	--
EP-C6	-3.108	--	--	--	--	--	--	--	--	--	-2.51	0.2	--	--	--	--	--	--	-2.221	--	--	--
EP-C7	-2.587	4.8	--	--	--	--	--	--	--	--	-1.99	3.3	--	--	--	--	--	--	-2.473	--	--	--
EP-C8	-2.897	5.5	--	--	--	--	--	--	--	--	-2.28	2.7	--	--	--	--	--	--	-2.51	--	--	--
EP-C9	-2.933	3.7	--	--	--	--	--	--	--	--	-2.32	2	--	--	--	--	--	--	-1.364	--	--	--
EP-E1	-1.872	323	--	--	--	--	--	--	--	--	-1.47	328	--	--	--	--	--	--	-1.286	--	--	--
EP-E2	-1.818	17.2	--	--	--	--	--	--	--	--	-1.43	14.5	--	--	--	--	--	--	-1.148	--	--	--
EP-E3	-1.658	1.5	--	--	--	--	--	--	--	--	-1.28	0.2	--	--	--	--	--	--	-1.176	--	--	--
EP-E4	-1.687	1.1	--	--	--	--	--	--	--	--	-1.29	0.3	--	--	--	--	--	--	-1.187	--	--	--
EP-E5	-1.683	0	--	--	--	--	--	--	--	--	-1.32	0	--	--	--	--	--	--	-0.186	--	--	--
SS3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.449	--	--	--
SS4	-0.734	--	--	--	--	--	--	--	--	--	-0.087	2950	--	--	--	--	--	--	-0.06	--	--	--
SS20	-0.109	--	--	--	--	--	--	--	--	--	-0.106	171	--	--	--	--	--	--	-0.075	--	--	--
SS21	-0.497	--	--	--	--	--	--	--	--	--	-0.31	460	--	--	--	--	--	--	-0.287	--	--	--
SS22	-0.517	--	--	--	--	--	--	--	--	--	-0.2	24	--	--	--	--	--	--	-0.172	--	--	--
SS23	-0.315	--	--	--	--	--	--	--	--	--	-0.32	0.2	--	--	--	--	--	--	-0.353	--	--	--
SS24	-0.436	--	--	--	--	--	--	--	--	--	-0.59	92	--	--	--	--	--	--	-0.645	--	--	--
SS25	-0.765	--	--	--	--	--	--	--	--	--	-0.23	0.5	--	--	--	--	--	--	-0.254	--	--	--
SS26	-0.397	--	--	--	--	--	--	--	--	--	-0.15	5.5	--	--	--	--	--	--	-0.146	--	--	--
SS27	-0.181	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

General Notes:

1. The sub-slab depressurization system (SSDS) began operating on April 30, 2007.
2. VOC = volatile organic compound.
3. ppm = parts per million.
4. in. w.c. = inches water column.
5. "--" = not measured.
6. NI = Not yet installed.
7. The soil vapor extraction (SVE) system began operating on August 22, 2007.
8. VOC concentrations were measured using a photoionization detector with a detection limit of 0.5 ppm.
9. N/A = Not Applicable
10. Carbon treatment system was modified from operating under negative pressure to operating under pressure on June 7, 2007.
11. Refer to Figure 4-1 for the SSDS Monitoring locations.
- * Results obtained during SVE diagnostic test.

Table 4-1
Sub-Slab Depressurization System (SSDS)
Monitoring Results, 50 Tufts Street
50 Tufts Street
Somerville, Massachusetts

Monitoring Point	Date: 12/27/2007		1/10/2008		1/16/2008		1/28/2008		2/8/2008		2/13/2008		2/21/2008		3/7/2008		3/13/2008		4/19/2008		5/1/2008	
	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)
West Header	-4.05	14.1	-3.98	18.3	--	--	--	--	-4.07	8.1	--	--	--	--	--	--	-3.98	8.1	-3.82	8.7	-3.96	22.3
Center Header	-4.06	78.5	-3.97	58.5	--	--	--	--	-4.05	48.9	--	--	--	--	--	--	-3.98	33.7	-3.78	26.8	-3.96	63
East Header	-1.67	65.3	-1.71	61	--	--	--	--	-1.71	41.5	--	--	--	--	--	--	-1.62	34.7	-1.64	35.5	-1.72	67.5
North Header	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-3.94	286	-4.13	572
South Header	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-3.96	101.7	-4.12	136.8
Combined Influent	-5.59	64.8	-5.47	55.5	--	55	--	37.2	--	35.6	--	34.5	--	28.5	--	33.0	-5.48	43.0	-5.2	22.8	-5.46	62.9
Lead Carbon Effluent	--	0.067	--	13.5	--	13.2	--	13.1	--	14.9	--	13.1	--	14.5	--	28.0	--	0	--	0	N/A	3.7
Secondary Carbon Effluent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A	N/A	N/A	N/A
System Discharge	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	--	N/A	0	N/A	1.5
EP-W1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-3.54	124.5
EP-W2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-2.69	50.8
EP-W3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1.91	16.5
EP-W4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1.38	2.6
EP-W5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1.03	1.8
EP-W6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1.17	2.5
EP-W7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1.13	2.6
EP-W8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1.1	7.4
EP-C1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-C2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-3.59	47.3
EP-C3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-3.34	15.3
EP-C4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-3.17	875
EP-C5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-3.04	67.8
EP-C6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-2.74	2.9
EP-C7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-2.34	3.6
EP-C8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-2.58	3.7
EP-C9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-2.61	4
EP-E1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1.52	228.9
EP-E2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1.48	20.8
EP-E3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1.34	4.5
EP-E4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1.36	2.3
EP-E5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1.38	2.1
SS3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.48	117.4
SS20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.14	164.8
SS22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.26	511
SS23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.16	35.9
SS24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.4	2.9
SS25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.65	29.9
SS26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.29	2.7
SS27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.15	--

- General Notes:**
1. The sub-slab depressurization system (SSDS) began operating on April 30, 2007.
 2. VOC = volatile organic compound.
 3. ppm = parts per million.
 4. in. w.c. = inches water column.
 5. "--" = not measured.
 6. NI = Not yet installed.
 7. The soil vapor extraction (SVE) system began operating on August 22, 2007.
 8. VOC concentrations were measured using a photoionization detector with a detection limit of 0.5 ppm.
 9. N/A = Not Applicable
 10. Carbon treatment system was modified from operating under negative pressure to operating under pressure on June 7, 2007.
 11. Refer to Figure 4-1 for the SSDS Monitoring locations.
- * Results obtained during SVE diagnostic test.

Table 4-1
Sub-Slab Depressurization System (SSDS)
Monitoring Results, 50 Tufts Street
50 Tufts Street
Somerville, Massachusetts

Monitoring Point	5/19/2008		6/25/2008		6/27/2008		6/27/2008		7/11/2008		7/16/2008		7/17/2008		7/25/2008		8/1/2008		8/8/2008		8/19/2008	
	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)
West Header	-3.93	13	-4.02	8.4	-4.2	13.4	-4.3	12.1	-4.48	48.4	-4.45	20	-4.48	41.9	-4.04	28.7	-3.75	15.1	-3.98	13.8	-3.98	22.6
Center Header	-3.98	30.4	-3.95	20.7	-4.24	28.2	-4.26	25.4	-4.43	89.4	-4.42	52.7	-4.45	70.1	-4	92.2	-3.75	28.4	-3.9	28.2	-3.95	37
East Header	-1.8	51.3	-1.88	29.7	-2.04	36.3	-2.04	39.5	-2.09	108.5	-2.09	76	-2.09	81.4	-1.93	104	-1.84	43.6	-1.79	27.5	-1.91	63.8
North Header	-4.09	476	-4.08	231.8	-4.47	310	-4.47	330	-4.63	784	-4.55	424	-4.63	670	-4.16	775	-3.92	234.6	-4.02	244.9	-4.07	416
South Header	-4.06	134.9	6.98	1.7	-4.5	8.6	-4.49	8.6	-3.36	25.3	-2.01	1.2	NM	266	-4.15	175	-3.9	97.7	-4.08	139	-4.05	172
Combined Influent	-5.27	45.8	-5.32	23.3	-5.84	53.7	-5.77	33.1	-6.05	109.4	-5.98	65.2	-6.05	89.3	-5.35	94.8	-5.02	33.5	-5.21	36.6	-5.24	45.1
Lead Carbon Effluent	N/A	8.9	N/A	28.4	N/A	32.5	N/A	2.1	N/A	0.3	N/A	0	N/A	37	43.1	66.7	42.8	20.7	44.3	23.3	40.7	51.8
Secondary Carbon Effluent	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.5	36.3	9.27	15	9.33	0	15.9	0
System Discharge	N/A	0	N/A	1.6	N/A	3	N/A	0	N/A	1.1	N/A	0	N/A	0	N/A	1.1	N/A	0	N/A	0	N/A	0
EP-W1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-W2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-W3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-W4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-W5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-W6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-W7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-W8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-C1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-C2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-C3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-C4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-C5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-C6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-C7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-C8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-C9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-E1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-E2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-E3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-E4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-E5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

General Notes:

1. The sub-slab depressurization system (SSDS) began operating on April 30, 2007.
2. VOC = volatile organic compound.
3. ppm = parts per million.
4. in. w.c. = inches water column.
5. "--" = not measured.
6. NI = Not yet installed.
7. The soil vapor extraction (SVE) system began operating on August 22, 2007.
8. VOC concentrations were measured using a photoionization detector with a detection limit of 0.5 ppm.
9. N/A = Not Applicable
10. Carbon treatment system was modified from operating under negative pressure to operating under pressure on June 7, 2007.
11. Refer to Figure 4-1 for the SSDS Monitoring locations.
- * Results obtained during SVE diagnostic test.

Table 4-1
Sub-Slab Depressurization System (SSDS)
Monitoring Results, 50 Tufts Street
50 Tufts Street
Somerville, Massachusetts

Monitoring Point	Date:	9/3/2008		9/9/2008		9/24/2008		9/29/2008		10/10/2008		10/14/2008		11/5/2008		11/6/2008		11/14/2008		11/17/2008		11/25/2008	
		Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)
West Header		-3.74	22.7	-3.92	10.4	-3.75	9.95	-3.92	11.5	-3.9	15.1	-3.81	22.7	-3.75	21.9	-3.98	16.6	-3.67	19.8	-3.75	8.18	-3.76	14.1
Center Header		-3.74	38.5	-3.89	21.4	-3.78	18.4	-3.88	30.0	-3.85	20.5	-3.75	37.4	-3.72	31.5	-3.94	22.8	-3.72	33.4	-3.74	24.9	-3.7	27.9
East Header		-1.76	51.1	-1.89	35.5	-1.71	21.2	-1.85	42.1	-1.79	24.3	-1.75	46.2	-1.61	38.2	-1.74	31.8	-1.59	40.3	-1.58	41.2	-1.53	29.6
North Header		-3.88	274	-4.02	558	-3.96	207	-4.04	447.0	-4.02	339.7	-3.89	439.0	-3.86	454.0	-4.06	343.0	-3.84	509.0	-3.88	416.0	-3.87	385.0
South Header		-3.89	145.7	-4.05	196	-1.71	133	-4.05	107.0	-3.99	150.7	-3.93	213.0	-3.87	243.0	-4.03	195.0	-3.86	273.0	-3.87	309.0	-3.84	229.0
Combined Influent		-5.05	52.3	-5.24	33.6	-3.96	22.7	-5.19	31.0	-5.13	34.1	-5.08	46.4	-5.05	50.1	-5.28	28.7	-5.01	44.9	-5.06	45.2	-4.96	31.7
Lead Carbon Effluent		40.8	69.1	41.2	37.2	43.2	20.7	42.1	52.1	43.3	39.4	42.3	48.5	43.9	46.8	34.3	2.55	35.5	19.1	35.7	14.9	35.2	18.2
Secondary Carbon Effluent		16.1	7.9	15.9	8.54	16.5	6.15	16.2	16.1	16.3	17.2	16.3	27.2	17.8	30.1	9.6	0	10.4	0	10.4	0	10.3	0
System Discharge		N/A	1.1	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	2.7	N/A	0	N/A	0	N/A	0	N/A	0
EP-W1		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-W2		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-W3		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-W4		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-W5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-W6		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-W7		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-W8		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-C1		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-C2		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-C3		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-C4		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-C5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-C6		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-C7		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-C8		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-C9		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-E1		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-E2		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-E3		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-E4		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EP-E5		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS3		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS4		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS20		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS21		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS22		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS23		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS24		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS25		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS26		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS27		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- General Notes:**
1. The sub-slab depressurization system (SSDS) began operating on April 30, 2007.
 2. VOC = volatile organic compound.
 3. ppm = parts per million.
 4. in. w.c. = inches water column.
 5. "--" = not measured.
 6. NI = Not yet installed.
 7. The soil vapor extraction (SVE) system began operating on August 22, 2007.
 8. VOC concentrations were measured using a photoionization detector with a detection limit of 0.5 ppm.
 9. N/A = Not Applicable
 10. Carbon treatment system was modified from operating under negative pressure to operating under pressure on June 7, 2007.
 11. Refer to Figure 4-1 for the SSDS Monitoring locations.
- * Results obtained during SVE diagnostic test.

Table 4-1
Sub-Slab Depressurization System (SSDS)
Monitoring Results, 50 Tufts Street
50 Tufts Street
Somerville, Massachusetts

Monitoring Point	Date: 12/5/2008		12/11/2008		12/18/2008		12/24/2008		12/30/2008		1/16/2009		1/27/2009		2/13/2009		2/20/2009		3/9/2009		3/17/2009		4/2/2009	
	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)
West Header	-3.68	6.95	-3.86	8.92	-3.9	8.1	-3.91	8.5	-1.6	0.5	-3.88	6.88	NM	NM	-3.75	5.81	-3.71	4.1	-3.83	NM	-3.57	8.03	-3.74	NM
Center Header	-3.71	91.6	-3.84	25.7	-3.87	15.4	-3.85	16.4	-1.61	2.8	-3.86	20.5	NM	NM	-3.73	14.3	-3.91	5.2	-3.79	NM	-3.54	16.1	-3.72	NM
East Header	-1.52	31.3	-1.59	24.2	-1.56	15.7	-1.52	16.9	-0.787	2.7	-1.38	18.1	NM	NM	-1.4	14.1	-1.47	5.1	-1.56	NM	-1.35	17.3	-1.48	NM
North Header	-3.83	311.0	-4.01	270.0	-4.04	142.0	-4.03	218.4	-1.36	1.7	-4.03	235.0	NM	NM	-3.92	112.0	-3.92	26.8	-3.93	NM	-3.72	13.7	-3.84	NM
South Header	-3.85	147.0	-3.98	164.0	-4.03	101.5	-4.08	168.3	-1.67	5.1	-4.07	145.0	NM	NM	-3.87	115.0	-3.95	26.5	-3.94	NM	-3.66	74.7	-3.88	NM
Combined Influent	-5.02	23.6	-5.17	24.7	-5.24	16.1	-5.23	17.1	-2.92	2.8	-5.3	16.6	NM	NM	-5.14	15.3	-5.10	16.1	-5.24	NM	-4.94	18.3	-5.09	NM
Lead Carbon Effluent	35.4	28.9	35.6	16.5	36.6	7.5	37.7	13.9	26.1	0	28.9	0	NM	NM	28.75	7.21	27.26	10.5	28.5	NM	28.7	26.2	28.7	NM
Secondary Carbon Effluent	10.2	0	10.5	0	10.7	0	10.9	1	16.6	0	19.4	0	NM	NM	18.31	0	9.42	0	18.9	NM	19.4	0	19.4	NM
System Discharge	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	NM	NM	N/A	0	N/A	0	N/A	NM	N/A	0	N/A	NM
EP-W1	--	--	--	--	--	--	--	--	--	--	--	--	-3.41	--	--	--	--	--	-3.44	--	--	--	--	--
EP-W2	--	--	--	--	--	--	--	--	--	--	--	--	-2.53	--	--	--	--	--	-2.6	--	--	--	--	--
EP-W3	--	--	--	--	--	--	--	--	--	--	--	--	-1.77	--	--	--	--	--	-1.86	--	--	--	--	--
EP-W4	--	--	--	--	--	--	--	--	--	--	--	--	-1.3	--	--	--	--	--	-1.38	--	--	--	--	--
EP-W5	--	--	--	--	--	--	--	--	--	--	--	--	-0.94	--	--	--	--	--	-1.01	--	--	--	--	--
EP-W6	--	--	--	--	--	--	--	--	--	--	--	--	-1.03	--	--	--	--	--	-1.13	--	--	--	--	--
EP-W7	--	--	--	--	--	--	--	--	--	--	--	--	-0.98	--	--	--	--	--	-1.04	--	--	--	--	--
EP-W8	--	--	--	--	--	--	--	--	--	--	--	--	-1.01	--	--	--	--	--	-1.1	--	--	--	--	--
EP-C1	--	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	--	--	NM	--	--	--	--	--
EP-C2	--	--	--	--	--	--	--	--	--	--	--	--	-3.44	--	--	--	--	--	-3.46	--	--	--	--	--
EP-C3	--	--	--	--	--	--	--	--	--	--	--	--	-3.21	--	--	--	--	--	-3.22	--	--	--	--	--
EP-C4	--	--	--	--	--	--	--	--	--	--	--	--	-3.03	--	--	--	--	--	-3.07	--	--	--	--	--
EP-C5	--	--	--	--	--	--	--	--	--	--	--	--	-2.88	--	--	--	--	--	-2.94	--	--	--	--	--
EP-C6	--	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	--	--	NM	--	--	--	--	--
EP-C7	--	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	--	--	NM	--	--	--	--	--
EP-C8	--	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	--	--	NM	--	--	--	--	--
EP-C9	--	--	--	--	--	--	--	--	--	--	--	--	-2.54	--	--	--	--	--	-2.58	--	--	--	--	--
EP-E1	--	--	--	--	--	--	--	--	--	--	--	--	-1.13	--	--	--	--	--	-1.34	--	--	--	--	--
EP-E2	--	--	--	--	--	--	--	--	--	--	--	--	-1.09	--	--	--	--	--	-1.31	--	--	--	--	--
EP-E3	--	--	--	--	--	--	--	--	--	--	--	--	-0.99	--	--	--	--	--	-1.2	--	--	--	--	--
EP-E4	--	--	--	--	--	--	--	--	--	--	--	--	-0.96	--	--	--	--	--	-1.17	--	--	--	--	--
EP-E5	--	--	--	--	--	--	--	--	--	--	--	--	-0.98	--	--	--	--	--	-1.18	--	--	--	--	--
SS3	--	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	--	--	NM	--	--	--	--	--
SS4	--	--	--	--	--	--	--	--	--	--	--	--	-0.39	--	--	--	--	--	NM	--	--	--	--	--
SS20	--	--	--	--	--	--	--	--	--	--	--	--	-0.05	--	--	--	--	--	-0.05	--	--	--	--	--
SS21	--	--	--	--	--	--	--	--	--	--	--	--	-0.08	--	--	--	--	--	-0.09	--	--	--	--	--
SS22	--	--	--	--	--	--	--	--	--	--	--	--	-0.05	--	--	--	--	--	-0.23	--	--	--	--	--
SS23	--	--	--	--	--	--	--	--	--	--	--	--	-0.11	--	--	--	--	--	-0.13	--	--	--	--	--
SS24	--	--	--	--	--	--	--	--	--	--	--	--	-0.36	--	--	--	--	--	NM	--	--	--	--	--
SS25	--	--	--	--	--	--	--	--	--	--	--	--	-0.55	--	--	--	--	--	-0.62	--	--	--	--	--
SS26	--	--	--	--	--	--	--	--	--	--	--	--	-0.18	--	--	--	--	--	-0.23	--	--	--	--	--
SS27	--	--	--	--	--	--	--	--	--	--	--	--	-0.09	--	--	--	--	--	-0.13	--	--	--	--	--

- General Notes:**
1. The sub-slab depressurization system (SSDS) began operating on April 30, 2007.
 2. VOC = volatile organic compound.
 3. ppm = parts per million.
 4. in. w.c. = inches water column.
 5. "--" = not measured.
 6. NI = Not yet installed.
 7. The soil vapor extraction (SVE) system began operating on August 22, 2007.
 8. VOC concentrations were measured using a photoionization detector with a detection limit of 0.5 ppm.
 9. N/A = Not Applicable
 10. Carbon treatment system was modified from operating under negative pressure to operating under pressure on June 7, 2007.
 11. Refer to Figure 4-1 for the SSDS Monitoring locations.
- * Results obtained during SVE diagnostic test.

Table 4-2
Soil Vapor Extraction (SVE) System
Monitoring Results, 50 Tufts Street
50 Tufts Street
Somerville, Massachusetts

Monitoring Point	8/20/2007		8/21/2007		8/22/2007		8/23/2007		8/24/2007		8/28/2007		9/4/2007		9/11/2007		9/18/2007		9/25/2007		10/2/2007		10/16/2007		10/23/2007		10/30/2007		11/9/2007		11/13/2007			
	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)				
West Header	-4.83	56	-4.72	46	-4.25	46	-4.9	41	-4.36	--	-4.27	38	-4.28	60	-4.15	50.5	-4.35	49	-4.24	36	-4.69	37.1	-4.05	36.8	-4.21	32	-4.0	28	-4.07	29.4	-4.07	29.4		
Center Header	-4.58	131	-4.54	113	-4.21	118	-4.86	94	-4.24	--	-4.15	72	-4.23	113	-4.07	90.9	-4.29	96	-4.17	70	-4.62	72.5	-4.01	63.2	-4.1	69	-3.96	57.6	-4.08	84.1	-4.08	84.1		
East Header	-1.87	218	-1.86	196	-1.91	176	-2.25	160	-2.03	--	-1.92	125	-2.13	199	-2.05	157.1	-1.96	159	-1.96	136	-2.06	108	-1.78	121	-1.96	104	-1.68	93	-1.7	86	-1.7	86		
North Header	--	--	--	--	--	8200	-5.11	5800	-4.46	--	-4.32	2165	-4.41	2278	-4.26	1750	-4.47	1760	-4.31	931	-4.78	1134	-4.09	1140	-4.34	940	-4.09	802	-4.24	980	-4.24	980		
South Header	-4.94	684	-4.93	470	-4.31	467	-5.12	404	-4.44	--	-4.37	277	-4.44	387	-4.27	486	-4.48	308	-4.32	177	-4.83	225	-4.16	188	-4.33	244	-4.11	152.5	-4.25	330	-4.25	330		
Combined Influent	-6.25	119	-6.18	104	-5.7	234	-6.68	208	-5.78	--	-5.68	158	-5.74	209	-5.56	175.9	-5.82	178	-5.69	136	-6.41	121	-5.54	120	-5.67	94	-5.51	95.5	-5.58	101.4	-5.58	101.4		
Primary Carbon Effluent	--	21.9	10.17	28	--	19.4	8.61	36	--	--	--	0	--	52	10.89	0	11.12	9.0	10.52	51	--	52	15.16	0.063	15.68	6.1	15.85	12.5	15.81	37.3	15.81	37.3		
Secondary Carbon Effluent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
System Discharge	N/A	0	N/A	0	N/A	0	N/A	0	N/A	--	N/A	0	N/A	0.2	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0
SVE-1	NI	NI	NI	NI	-4.34	157	-4.96	89	--	--	-4.305	30	-4.31	22	-4.387	184	-4.3	12	-4.16	11.8	-4.72	7.1	-4.06	9.5	-4.23	9.0	-4.05	6.4	-4.166	3.8	-4.18	6.1		
SVE-2	NI	NI	NI	NI	-4.31	428	-4.96	276	--	--	-4.307	55	-4.32	49	-4.345	162	-4.31	22	-4.12	22.5	-4.72	13.1	-4.03	12	-4.22	11	-4.01	8.5	-4.138	5.2	-4.2	11.8		
SVE-3	NI	NI	NI	NI	-4.38	6450	-4.97	2300	--	--	-4.267	630	-4.28	621	-4.33	491	-4.27	426	-4.11	479	-4.73	308	-4.01	405	-4.24	297	-4.01	297	-4.127	226.6	-4.19	323		
SVE-4	NI	NI	NI	NI	-4.32	1009	-4.98	465	--	--	-4.315	726	-4.3	510	-4.35	340	-4.31	224	-4.15	213	-4.73	133	-4.05	150	-4.21	110	-4.03	109.5	-4.166	76.9	-4.14	107.7		
SVE-5	NI	NI	NI	NI	-4.35	8000	-5.01	4000	--	--	-4.318	4040	-4.29	1500	-4.36	1200	-4.31	1100	-4.16	1519	-4.71	1093	-4.02	1900	-4.22	1460	-4.07	1300	-4.19	2400	-4.16	2700		
SVE-6	-4.98	197	-4.91	152	-4.39	139	-4.98	121	--	--	-4.366	72	-4.39	102	-4.46	312	-4.44	112	-4.25	87	-4.82	73	-4.11	78	-4.28	86	-4.11	84.4	-4.19	50.4	-4.165	72.9		
SVE-7	-4.98	577	-4.97	263	-4.37	368	-4.97	266	--	--	-4.376	165	-4.41	320	-4.46	790	-4.45	258	-4.24	330	-4.78	181	-4.13	197	-4.31	172	-4.09	210	-4.177	108.2	-4.25	335		
SVT-MW201D	--	--	--	--	--	--	--	--	--	--	-0.045	0	-0.049	2.0	-0.065	20	-0.048	1.0	-0.052	1.7	-0.049	0	-0.051	0.7	-0.075	0.7	-0.042	0.8	-0.045	2.8	-0.041	0.4		
SVT-MW201S	--	--	--	--	--	--	--	--	--	--	0	0	-0.004	3.5	-0.004	15	-0.005	2.0	0	1.8	-0.004	0.3	-0.003	0	-0.007	1.2	-0.005	0.1	-0.007	0.9	-0.005	0.5		
SVT-MW202D	--	--	--	--	--	--	--	--	--	--	-0.013	0	-0.012	0.5	-0.019	0	-0.018	0	-0.008	0	-0.006	0	-0.018	0	-0.041	0	-0.019	0	-0.024	1.4	-0.024	0.5		
SVT-MW202S	--	--	--	--	--	--	--	--	--	--	0	0	0	1.5	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	-0.004	0.5	0	0		
SVT-1D	--	--	--	--	-0.32	1.4	-0.36	28	--	--	-0.6	2.5	-0.327	7.5	-0.321	196	-1.405	2.0	-0.226	0	-0.34	1.0	-0.298	1.5	-0.337	2.7	-0.182	0.9	-0.062	0.33	-0.319	0.2		
SVT-2D	--	--	--	--	-0.73	19.4	-0.81	38	--	--	-1.1	5.0	-0.715	10.7	-0.753	124	-0.712	1.0	-0.669	0	-0.744	0.1	-0.66	1.2	-0.703	2.0	-0.671	0	-0.687	1.2	-0.676	0		
SVT-3D	--	--	--	--	-0.14	5.0	0.301	4.0	--	--	0.36	12.4	-0.058	22	-0.149	15	-0.092	0	-0.096	9.1	-0.101	5.0	-0.091	0	-0.107	0.3	-0.1	0	-0.094	0	-0.116	0		
SVT-3S	--	--	--	--	-0.31	40	-0.749	24	--	--	-0.07	7.5	-0.074	11.6	-0.095	3.2	-0.085	4.0	-0.286	3.8	-0.083	1.4	-0.077	1.6	-0.091	2.8	-0.083	0.1	-0.385	0.9	-0.495	0		
SVT-4D	--	--	--	--	--	--	0.138	38	--	--	0.25	17.5	-0.065	21	-0.107	16	-0.092	1.0	-0.074	7.5	-0.088	7.0	-0.076	0	-0.102	0	-0.066	0	-0.085	0.4	-0.088	0		
SVT-5D	--	--	--	--	-1.46	7.4	-1.736	23	--	--	-1.49	0	-1.443	30	-1.594	105	-1.517	11	-1.358	12.1	-1.547	1.7	-1.354	5.6	-1.382	0.9	-1.391	4.4	-1.442	0.5	-1.41	0.1		
SVT-5S	--	--	--	--	-0.52	129	-0.635	42	--	--	-0.54	2.5	-0.523	11.7	-0.703	124	-0.636	5.0	-0.545	5.2	-0.576	1.1	-0.578	2.7	-0.648	5.1	-0.624	2.1	-0.642	1.2	-0.448	0.5		
SVT-6D	--	--	--	--	--	--	-1.257	248	--	--	-1.19	53	-1.187	67	-1.351	44	-1.217	13	-1.141	25.8	-1.296	20	-1.135	9.0	-1.209	12	-1.155	8.6	-1.188	97.2	--	--		
SVT-7D	--	--	--	--	--	--	-0.027	4.0	--	--	-0.025	2.5	-0.03	1.3	-0.017	0	-0.032	1.0	-0.022	0.2	-0.024	0.1	-0.02	0	-0.017	0.2	-0.021	0	-0.026	0.5	-0.021	0		
SVT-8D	--	--	--	--	--	--	-1.98	1850	--	--	-1.731	541	-0.18	196	-1.827	7000	-1.642	116	-1.568	199	-1.764	189	-1.465	0.8	-1.325	79	-1.267	0	-1.259	39	-1.31	0.9		
SVT-8S	--	--	--	--	--	--	-0.183	600	--	--	-0.183	180	-1.697	734	-0.258	1050	-0.214	707	-0.171	534	-0.201	292	-0.18	645	-0.212	744	-0.194	610	-0.2	0.3	-0.19	480		
SVT-9D	--	--	--	--	-0.79	1500	-0.805	1370	--	--	-0.778	830	-0.769	1000	-1.003	1000	-0.836	1173	-0.716	933	-0.859	950	-0.76	2034	-0.724	1480	-0.823	1230	-0.832	4700	-0.85	3260		
SVT-9S	--	--	--	--	-0.53	2500	-0.31	2350	--	--	-0.695	2029	-0.285	1300	-1.102	928	-1.011	632	-0.347	877	-0.411	800	-0.554	545	-0.362	1050	-0.055	1050	-0.515	3200	-0.54	2200		
SVT-10D	--	--	--	--	--	--	-0.01	5.0	--	--	0.394	38	0.11	4.0	-0.016	0	--	1.0	-0.008	2.2	--	--	--	--	--	--	--	--	--	--	0.095	0.3		
SVT-11S	--	--	--	--	--	--	-0.008	1.3	--	--	-0.008	35	-0.007	0.5	-0.048	0	--	0	-0.005	0	--	--	--	--	--	--	--	--	--	--	0.054	0		
SVT-12D	--	--	--	--	--	--	-0.019	1.3	--	--	-0.021	40	-0.008	3.0	-0.161	5.0	-0.125	6.0	--															

Table 4-2
Soil Vapor Extraction (SVE) System
Monitoring Results, 50 Tufts Street
50 Tufts Street
Somerville, Massachusetts

Monitoring Point	11/19/2007		11/26/2007		12/3/2007		12/7/2007		12/12/2007		12/27/2007		1/10/2008		1/16/2008		1/28/2008		2/8/2008		2/13/2008		2/21/2008		2/13/2008		2/21/2008		3/13/2008		4/19/2008	
	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)		
West Header	-4.197	26.8	-3.39	20.1	-4.1	29.3	-4.02	21.8	-3.97	22.5	-4.05	14.1	-3.98	18.3	--	--	--	--	-4.07	8.1	--	--	--	--	--	--	--	--	-3.98	8.1	-3.82	8.7
Center Header	-4.145	79.3	-3.38	61.2	-4.0	121.5	-3.98	80.5	-3.92	86.4	-4.06	78.5	-3.97	58.5	--	--	--	--	-4.05	48.9	--	--	--	--	--	--	--	--	-3.98	33.7	-3.78	26.8
East Header	-1.691	85	-1.55	75.8	-1.61	99.3	-1.57	79.6	-1.61	88.5	-1.67	65.3	-1.71	61	--	--	--	--	-1.71	41.5	--	--	--	--	--	--	--	--	-1.62	34.7	-1.64	35.5
North Header	-4.295	755	-3.51	618	-4.08	903	-4.13	811	-4.08	665	-4.19	613	-4.11	398	--	--	--	--	--	242	--	--	--	--	--	--	--	--	-4.17	367	-3.94	286
South Header	-4.25	279	-3.54	199	-4.12	260	-4.14	264	-4.09	225	-4.2	267	-4.12	144	--	--	--	--	-4.19	162	--	--	--	--	--	--	--	--	-4.15	52.6	-3.96	101.7
Combined Influent	-5.624	91.7	-4.63	73.8	-5.43	97.3	-5.52	98.5	-5.39	77.9	-5.59	64.8	-5.47	55.5	--	55	--	37.2	--	35.6	--	34.5	--	28.5	--	34.5	--	33	-5.48	43	-5.2	22.8
Primary Carbon Effluent	16.45	51.5	--	0	--	0	--	0	--	0	--	0.067	--	13.5	--	13.2	--	13.1	--	14.9	--	13.1	--	14.5	--	18	--	28	--	43	--	0
Secondary Carbon Effluent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
System Discharge	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	--	0	--	0	N/A	0	--	0	--	0	--	0	--	0	N/A	0	N/A	0
SVE-1	-4.288	8.2	-3.487	10.4	-3.97	3.9	-4.09	7.8	-4.02	4.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-4.07	0.8	--	--
SVE-2	--	--	-3.458	10.9	-4.02	5.5	-4.08	11.5	-4.05	8.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-4.06	1.7	--	--
SVE-3	-4.203	33	-3.438	130.8	-4.07	375	-4.07	373	-4.03	282	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-4.05	37.3	--	--
SVE-4	-4.256	105.3	-3.5	14.8	-4.13	124	-4.08	97.8	-4.05	96.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-4.03	20.5	--	--
SVE-5	--	--	-4.106	2638	-4.09	3450	-4.09	2530	-4.05	3260	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-4.02	650	--	--
SVE-6	-4.279	85.1	-3.548	32.1	-4.131	47.3	-4.14	68.8	-4.08	54.1	--	--	-4.1	20.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-4.14	55.9	--	--
SVE-7	-4.271	172.7	-3.545	201.9	-4.149	187	-4.1	265	-4.09	219	--	--	-4.13	141	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-4.13	8.0	--	--
SVT-MW201D	-0.052	0.8	-0.068	0.8	-0.051	0.6	--	--	-0.061	1.1	--	--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	-0.055	0	--	--
SVT-MW201S	-0.009	0	-0.008	0.5	-0.009	0.8	--	--	-0.009	0	--	--	--	--	-0.008	0.05	--	--	--	--	--	--	--	--	--	--	--	--	-0.024	0	--	--
SVT-MW202D	-0.022	0.1	-0.037	0.6	-0.012	0	--	--	-0.029	0	--	--	--	--	-0.013	0.082	--	--	--	--	--	--	--	--	--	--	--	--	-0.023	0	--	--
SVT-MW202S	-0.009	0.3	-0.007	1.8	-0.003	0	--	--	0	0.2	--	--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	-0.466	0.7	--	--
SVT-1D	-0.331	2.2	-0.295	1.7	--	--	--	--	-0.325	1.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.242	0.7	--	--
SVT-2D	-0.689	0.8	-0.585	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.547	0.5	--	--
SVT-3D	-0.108	0	-0.123	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.378	2.3	--	--
SVT-3S	-0.316	0.4	-0.089	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.097	0	--	--
SVT-4D	-0.1	0	-0.095	0	-0.076	7.7	--	--	-0.086	6.1	--	--	--	--	-0.083	0	--	--	--	--	--	--	--	--	--	--	--	--	-0.067	3.7	--	--
SVT-5D	-1.438	4.7	-1.185	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1.071	0	--	--
SVT-5S	-0.331	0	-0.354	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.268	0	--	--
SVT-6D	-1.135	1.2	-1.07	3.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.503	0	--	--
SVT-7D	-0.02	0	-0.027	0.3	-0.027	0.3	--	--	-0.021	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	--	--
SVT-8D	1.26	0.1	-1.093	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.025	0	--	--
SVT-8S	-0.102	550	-0.251	0.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.186	0	--	--
SVT-9D	-0.865	2600	-0.859	5200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-9S	-0.512	2400	-0.547	3400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-10D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-11S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-12D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-12S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-14S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-15D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-16D	-0.042	23.5	-0.047	28.1	--	--	--	--	--	--	--	--	-0.029	16.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.177	10	--	--
SVT-16S	0	27.1	0	23.9	--	--	--	--	--	--	--	--	-0.01	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.041	23	--	--
SVT-17D	0.012	23.7	-0.011	110.9	--	--	--	--	--	--	--	--	0	58.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.003	48	--	--
SVT-17S	0.006	96.9	-0.005	23	--	--	--	--	--	--	--	--	-0.004	11.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.012	18	--	--
SVT-18D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	147	--	--
SVT-19D	0	273	0	257	--	--	--	--	--	--	--	--	-0.005	127	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-20D	0	46.2	--	--	--	--	--	--	--	--	--	--	--	--																		

- General Notes:**
1. The soil vapor extraction (SVE) system was started up on August 22, 2007.
 2. VOC = volatile organic compound in parts per million (pp

Table 4-2
Soil Vapor Extraction (SVE) System
Monitoring Results, 50 Tufts Street
50 Tufts Street
Somerville, Massachusetts

Monitoring Point	Date: 5/1/2008		5/19/2008		6/25/2008		6/27/2008		6/27/2008		7/11/2008		7/16/2008		7/17/2008		7/25/2008		8/1/2008		8/8/2008		8/19/2008		9/3/2008		9/9/2008		9/24/2008		9/29/2008	
	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)		
West Header	-3.96	22.3	-3.93	13	-4.02	8.4	-4.2	13.4	-4.3	12.1	-4.48	48.4	-4.45	20	-4.48	41.9	-4.04	28.7	-3.75	15.1	-3.98	13.8	-3.98	22.6	-3.74	22.7	-3.92	10.4	-3.75	9.95	-3.92	11.5
Center Header	-3.96	63	-3.98	30.4	-3.95	20.7	-4.24	28.2	-4.26	25.4	-4.43	89.4	-4.42	52.7	-4.45	70.1	-4.0	92.2	-3.75	28.4	-3.9	28.2	-3.95	37	-3.74	38.5	-3.89	21.4	-3.78	18.4	-3.88	30.0
East Header	-1.72	67.5	-1.8	51.3	-1.88	29.7	-2.04	36.3	-2.04	39.5	-2.09	108.5	-2.09	76	-2.09	81.4	-1.93	104	-1.84	43.6	-1.79	27.5	-1.91	63.8	-1.76	51.1	-1.89	35.5	-1.71	21.2	-1.85	42.1
North Header	-4.13	572	-4.09	476	-4.08	231.8	-4.47	310	-4.47	330	-4.63	784	-4.55	424	-4.63	670	-4.16	775	-3.92	234.6	-4.02	244.9	-4.07	416	-3.88	274	-4.02	558	-3.96	207	-4.04	447
South Header	-4.12	136.8	-4.06	134.9	6.98	1.7	-4.5	8.6	-4.49	8.6	-3.36	25.3	-2.01	1.2	NM	266	-4.15	175	-3.9	97.7	-4.08	139	-4.05	172	-3.89	145.7	-4.05	196	-3.94	133	-4.05	107
Combined Influent	-5.46	62.9	-5.27	45.8	-5.32	23.3	-5.84	53.7	-5.77	33.1	-6.05	109.4	-5.96	65.2	-6.05	89.3	-5.35	94.8	-5.02	33.5	-5.21	36.6	-5.24	45.1	-5.05	52.3	-5.24	33.6	-5.05	22.7	-5.19	31.0
Primary Carbon Effluent	N/A	3.7	N/A	8.9	N/A	28.4	N/A	32.5	N/A	2.1	N/A	0.3	N/A	0	N/A	37	43.1	66.7	42.8	20.7	44.3	23.3	40.7	51.8	40.8	69.1	41.2	37.2	43.2	20.7	42.1	52.1
Secondary Carbon Effluent	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.5	36.3	9.27	15	9.33	0	15.9	0	16.1	7.9	15.9	8.54	16.5	6.15	16.2	16.1
System Discharge	N/A	1.5	N/A	0	N/A	1.6	N/A	3.0	N/A	0	N/A	1.1	N/A	0	N/A	0	N/A	1.1	N/A	0	N/A	0	N/A	0	N/A	1.1	N/A	0	N/A	0	N/A	0
SVE-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-4.52	7.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVE-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-4.53	15.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVE-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-4.51	203	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVE-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-4.55	73.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVE-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-4.49	1075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVE-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-4.6	59.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVE-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-4.64	253	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-MW201D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.029	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-MW201S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-MW202D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.016	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-MW202S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-1D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.325	2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-2D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.734	2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-3D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.093	5.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-3S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.022	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-4D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.067	12.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-5D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-5S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.192	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-6D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1.187	41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-7D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.03	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-8D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1.365	171	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-8S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-9D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.742	1500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-9S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.255	1250	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-10D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-11S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-12D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-12S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-14S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-15D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-16D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.07	22.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-16S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.009	16.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-17D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-17S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-18D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-19D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.095	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-20D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-20S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-21D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	6.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-22D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-0.008	86.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-22S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-23D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--															

- General Notes:
- The soil vapor extraction (SVE) system was started up on August 22, 2007.
 - VOC = volatile organic compound in parts per million (ppm).
 - ppm = parts per million.
 - in. w.c. = inches water column.
 - "--" = not measured.
 - Header readings on 8/23/07 were taken with one carbon tank in series. All other monitoring point readings were taken with two carbon tanks in series.
 - SVT monitoring points listed on 9/11/07 were measured on 9/12/07 due to rain.
 - SVT monitoring points listed on 1/27/09 were measured on 2/3/09 due to weather.
 - NI = Not Installed.
 - N/A = Not Applicable.
 - South header online 8/20/07.
 - Refer to Figures 4-2a and 4-2b for the SVE monitoring and extraction points.

Table 4-2
Soil Vapor Extraction (SVE) System
Monitoring Results, 50 Tufts Street
50 Tufts Street
Somerville, Massachusetts

Monitoring Point	Date: 10/10/2008		10/14/2008		11/5/2008		11/6/2008		11/14/2008		11/17/2008		11/25/2008		12/5/2008		12/11/2008		12/18/2008		12/24/2008		12/30/2008		1/16/2009	
	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)	Pressure (in. w.c.)	VOC (ppm)
West Header	-3.9	15.1	-3.81	22.7	-3.75	21.9	-3.98	16.6	-3.67	19.8	-3.75	8.18	-3.76	14.1	-3.68	6.95	-3.86	8.92	-3.9	8.1	-3.91	8.5	-1.6	0.5	-3.88	6.88
Center Header	-3.85	20.5	-3.75	37.4	-3.72	31.5	-3.94	22.8	-3.72	33.4	-3.74	24.9	-3.7	27.9	-3.71	91.6	-3.84	25.7	-3.87	15.4	-3.85	16.4	-1.61	2.8	-3.86	20.5
East Header	-1.79	24.3	-1.75	46.2	-1.61	38.2	-1.74	31.8	-1.59	40.3	-1.58	41.2	-1.53	29.6	-1.52	31.3	-1.59	24.2	-1.56	15.7	-1.52	16.9	-0.787	2.7	-1.38	18.1
North Header	-4.02	340	-3.89	439	-3.86	454	-4.06	343	-3.84	509	-3.88	416.0	-3.87	385.0	-3.83	311.0	-4.01	270.0	-4.04	142.0	-4.03	218.4	-1.36	1.7	-4.03	235.0
South Header	-3.99	151	-3.93	213	-3.87	243	-4.03	195	-3.86	273	-3.87	309.0	-3.84	229.0	-3.85	147.0	-3.98	164.0	-4.03	101.5	-4.08	168.3	-1.67	5.1	-4.07	145.0
Combined Influent	-5.13	34.1	-5.08	46.4	-5.05	50.1	-5.28	28.7	-5.01	44.9	-5.06	45.2	-4.96	31.7	-5.02	23.6	-5.17	24.7	-5.24	16.1	-5.23	17.1	-2.92	2.8	-5.3	16.6
Primary Carbon Effluent	43.3	39.4	42.3	48.5	43.9	46.8	34.3	2.55	57.6	19.1	35.7	14.9	35.2	18.2	35.4	28.9	35.6	16.5	36.6	7.5	37.7	13.9	26.1	0	28.9	0
Secondary Carbon Effluent	16.3	17.2	16.3	27.2	17.8	30.1	9.6	0	35.5	0	10.4	0	10.3	0	10.2	0	10.5	0	10.7	0	10.9	1.1	16.6	0	19.4	0
System Discharge	N/A	0	N/A	0	N/A	2.7	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0
SVE-1	--	--	--	--	--	--	--	--	-3.818	3.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVE-2	--	--	--	--	--	--	--	--	-3.803	4.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVE-3	--	--	--	--	--	--	--	--	-3.821	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVE-4	--	--	--	--	--	--	--	--	-3.814	53.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVE-5	--	--	--	--	--	--	--	--	-3.864	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVE-6	--	--	--	--	--	--	--	--	-3.852	30.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVE-7	--	--	--	--	--	--	--	--	-3.847	153	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-MW201D	--	--	--	--	--	--	--	--	-0.024	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-MW201S	--	--	--	--	--	--	--	--	-0.003	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-MW202D	--	--	--	--	--	--	--	--	-0.362	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-MW202S	--	--	--	--	--	--	--	--	-0.009	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-1D	--	--	--	--	--	--	--	--	-0.261	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-2D	--	--	--	--	--	--	--	--	-0.614	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-3D	--	--	--	--	--	--	--	--	-0.094	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-3S	--	--	--	--	--	--	--	--	-0.084	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-4D	--	--	--	--	--	--	--	--	-0.064	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-5D	--	--	--	--	--	--	--	--	-1.127	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-5S	--	--	--	--	--	--	--	--	-0.541	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-6D	--	--	--	--	--	--	--	--	-1.017	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-7D	--	--	--	--	--	--	--	--	-0.024	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-8D	--	--	--	--	--	--	--	--	-1.153	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-8S	--	--	--	--	--	--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-9D	--	--	--	--	--	--	--	--	-0.632	31.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-9S	--	--	--	--	--	--	--	--	-0.289	2.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-10D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-11S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-12D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-12S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-14S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-15D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-16D	--	--	--	--	--	--	--	--	-0.054	9.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-16S	--	--	--	--	--	--	--	--	-0.007	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-17D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-17S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-18D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-19D	--	--	--	--	--	--	--	--	-0.007	94.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-20D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-20S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-21D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-22D	--	--	--	--	--	--	--	--	-0.184	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-22S	--	--	--	--	--	--	--	--	-0.003	8.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-23D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-24D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-25D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-25S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-26D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVT-27D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

General Notes:

- The soil vapor extraction (SVE) system was started up on August 22, 2007.
- VOC = volatile organic compound in parts per million (ppm).
- ppm = parts per million.
- n. w.c. = inches water column.
- "-" = not measured.
- Header readings on 8/23/07 were taken with one carbon tank in series. All other monitoring point readings were taken with two carbon tanks in series.
- SVT monitoring points listed on 9/11/07 were measured on 9/12/07 due to rain.
- SVT monitoring points listed on 1/27/09 were measured on 2/3/09 due to weather.
- NI = Not Installed.
- N/A = Not Applicable
- South header online 8/20/07.
- Refer to Figures 4-2a and 4-2b for the SVE monitoring and extraction points.

Table 4-2
Soil Vapor Extraction (SVE) System
Monitoring Results, 50 Tufts Street
50 Tufts Street
Somerville, Massachusetts

Monitoring Point	1/27/2009		2/13/2009		2/20/2009		3/9/2009		3/17/2009		4/2/2009	
	Pressure (in. (in. w.c.))	VOC (ppm)	Pressure (in. (in. w.c.))	VOC (ppm)	Pressure (in. (in. w.c.))	VOC (ppm)	Pressure (in. (in. w.c.))	VOC (ppm)	Pressure (in. (in. w.c.))	VOC (ppm)	Pressure (in. (in. w.c.))	VOC (ppm)
West Header	NM	NM	-3.75	5.81	-3.71	4.1	-3.83	NM	-3.57	8.03	-3.74	NM
Center Header	NM	NM	-3.73	14.3	-3.91	5.2	-3.79	NM	-3.54	16.1	-3.72	NM
East Header	NM	NM	-1.4	14.1	-1.47	5.1	-1.56	NM	-1.35	17.3	-1.48	NM
North Header	NM	NM	-3.92	112.0	-3.92	26.8	-3.93	NM	-3.72	13.7	-3.84	NM
South Header	NM	NM	-3.87	115.0	-3.95	26.5	-3.94	NM	-3.66	74.7	-3.68	NM
Combined Influent	NM	NM	-5.14	15.3	-5.1	16.1	-5.24	NM	-4.94	18.3	-5.09	NM
Primary Carbon Effluent	NM	NM	28.75	7.21	27.26	10.5	28.5	NM	28.7	26.2	28.7	NM
Secondary Carbon Effluent	NM	NM	18.31	0	9.42	0	18.9	NM	19.4	0	19.4	NM
System Discharge	NM	NM	N/A	0	N/A	0	N/A	NM	N/A	0	N/A	NM
SVE-1	-3.85	0	--	--	--	--	--	--	--	--	--	--
SVE-2	-3.81	0	--	--	--	--	--	--	--	--	--	--
SVE-3	-3.82	1.45	--	--	--	--	--	--	--	--	--	--
SVE-4	-3.82	9.38	--	--	--	--	--	--	--	--	--	--
SVE-5	-3.81	46.4	--	--	--	--	--	--	--	--	--	--
SVE-6	-3.8	34.5	--	--	--	--	--	--	--	--	--	--
SVE-7	-3.85	11.6	--	--	--	--	--	--	--	--	--	--
SVT-MW201D	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-MW201S	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-MW202D	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-MW202S	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-1D	-0.25	4.43	--	--	--	--	--	--	--	--	--	--
SVT-2D	-0.36	0	--	--	--	--	--	--	--	--	--	--
SVT-3D	-0.09	0	--	--	--	--	--	--	--	--	--	--
SVT-3S	-0.07	0	--	--	--	--	--	--	--	--	--	--
SVT-4D	-0.06	1.2	--	--	--	--	--	--	--	--	--	--
SVT-5D	-1.05	3.51	--	--	--	--	--	--	--	--	--	--
SVT-5S	-0.4	0	--	--	--	--	--	--	--	--	--	--
SVT-6D	-0.19	0	--	--	--	--	--	--	--	--	--	--
SVT-7D	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-8D	-0.59	2.41	--	--	--	--	--	--	--	--	--	--
SVT-8S	0	0	--	--	--	--	--	--	--	--	--	--
SVT-9D	-0.55	23.1	--	--	--	--	--	--	--	--	--	--
SVT-9S	NM	0	--	--	--	--	--	--	--	--	--	--
SVT-10D	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-11S	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-12D	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-12S	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-14S	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-15D	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-16D	-0.07	11.8	--	--	--	--	--	--	--	--	--	--
SVT-16S	0	26.7	--	--	--	--	--	--	--	--	--	--
SVT-17D	0	0	--	--	--	--	--	--	--	--	--	--
SVT-17S	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-18D	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-19D	+0.19	0	--	--	--	--	--	--	--	--	--	--
SVT-20D	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-20S	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-21D	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-22D	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-22S	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-23D	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-24D	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-25D	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-25S	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-26D	NM	NM	--	--	--	--	--	--	--	--	--	--
SVT-27D	NM	NM	--	--	--	--	--	--	--	--	--	--

General Notes:

1. The soil vapor extraction (SVE) system was started up on August 22, 2007.
2. VOC = volatile organic compound in parts per million (ppm).
3. ppm = parts per million.
4. in. w.c. = inches water column.
5. "-" = not measured.
6. Header readings on 8/23/07 were taken with one carbon tank in series. All other monitoring point readings were taken with two carbon tanks in series.
7. SVT monitoring points listed on 9/11/07 were measured on 9/12/07 due to rain.
8. SVT monitoring points listed on 1/27/09 were measured on 2/3/09 due to weather.
8. NI = Not Installed.
9. N/A = Not Applicable
10. South header online 8/20/07.
11. Refer to Figures 4-2a and 4-2b for the SVE monitoring and extraction points.

Table 4-3
Chemical Testing Results - Indoor and Outdoor Air
50 Tufts Street
Somerville, Massachusetts

Location Name: Sample Name: Sample Date: Units:		Garage															
		50T-GA 5/1/07		GA 5/14/07		50Tufts-GA 6/28/07		50T-GA 8/28/07		50TUFTS-GA 10/4/07		50T-GA 12/7/07		50TUFTS-GA 5/1/08		50TUFTS-GA 3/9/09	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method																
Volatile Organic Compounds (VOCs)		TO-15															
Carbon tetrachloride		0.75 J	0.12 J	< 1.3	< 0.20	0.69 J	0.11 J	0.69 J	0.11 J	< 1.3	< 0.20	0.63 J	0.10 J	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		50	7.3	26	3.9	22	3.2	79.3	11.7	6.2	0.91	10	1.5	9.5	1.4	6.4	0.95
Trichloroethane,1,1,1- (TCA)		1.5	0.28	< 1.1	< 0.20	< 1.1	< 0.20	5.2	0.95	< 1.1	< 0.20	< 1.1	< 0.20	1.0 J	0.19 J	< 1.1	< 0.20
Trichloroethylene (TCE)		2.4	0.44	< 1.1	< 0.20	< 1.1	< 0.20	4.4	0.82	< 1.1	< 0.20	< 1.1	< 0.20	1.9	0.35	< 1.1	< 0.20

- General Notes:**
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 2. µg/m³ = micrograms per cubic meter.
 3. ppbv = parts per billion by volume.
 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 5. Refer to Figure 4-3 for air sampling locations.
 6. The sub-slab depressurization system (SSDS) and soil vapor extraction (SVE) system began operating on April 30, 2007 and August 22, 2007, respectively.

- Qualifying Notes:**
- J The reported result is below the laboratory reporting limit and is estimated.
- G The reported result is estimated due to duplicate precision outside control limits.
- J+ The reported result is estimated.

Table 4-3
Chemical Testing Results - Indoor and Outdoor Air
50 Tufts Street
Somerville, Massachusetts

Location Name: Sample Name: Sample Date: Units:		North Central Warehouse															
		50T-NC		NC		50Tufts-NC		50T-NC		50TUFTS-NC		50T-NC		50TUFTS-NC		50TUFTS-NC	
		5/1/07		5/14/07		6/28/07		8/28/07		10/4/07		12/7/07		5/1/08		3/9/09	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		0.75 J	0.12 J	< 1.3	< 0.20	0.60 J	0.096 J	0.59 J	0.093 J	< 1.3	< 0.20	0.63 J	0.10 J	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane, 1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, 1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		47	7.0	30	4.4	16	2.3	69.2	10.2	5.5	0.81	10	1.5	6.4	0.94	6.1	0.9
Trichloroethane, 1,1,1- (TCA)		1.4	0.25	< 1.1	< 0.20	< 1.1	< 0.20	3.7	0.67	< 1.1	< 0.20	< 1.1	< 0.20	0.98 J	0.18 J	< 1.1	< 0.20
Trichloroethylene (TCE)		2.0	0.37	< 1.1	< 0.20	< 1.1	< 0.20	3.4	0.63	< 1.1	< 0.20	< 1.1	< 0.20	1.9	0.36	< 1.1	< 0.20

- General Notes:**
- Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 - µg/m³ = micrograms per cubic meter.
 - ppbv = parts per billion by volume.
 - "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 - Refer to Figure 4-3 for air sampling locations.
 - The sub-slab depressurization system (SSDS) and soil vapor extraction (SVE) system began operating on April 30, 2007 and August 22, 2007, respectively.

- Qualifying Notes:**
- J The reported result is below the laboratory reporting limit and is estimated.
 - G The reported result is estimated due to duplicate precision outside control limits.
 - J+ The reported result is estimated.

Table 4-3
Chemical Testing Results - Indoor and Outdoor Air
50 Tufts Street
Somerville, Massachusetts

Location Name: Sample Name: Sample Date: Units:		North Office															
		50T-NO		NO		50Tufts-NO		50T-NO		50TUFTS-NO		50T-NO		50TUFTS-NO		50TUFTS-NO	
		5/1/07		5/14/07		6/28/07		8/28/07		10/4/07		12/7/07		5/1/08		3/9/09	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		0.69 J	0.11 J	< 1.3	< 0.20	0.61 J	0.097 J	0.63 J	0.10 J	< 1.3	< 0.20	0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		34	5.0	6.4	0.94	8.8	1.3	8.8	1.3	4.3	0.64	12	1.8	4.3	0.64	2.0	0.30
Trichloroethane,1,1,1- (TCA)		3.0	0.55	< 1.1	< 0.20	0.87 J	0.16 J	0.93 J	0.17 J	< 1.1	< 0.20	< 1.1	< 0.20	0.65 J	0.12 J	< 1.1	< 0.20
Trichloroethylene (TCE)		5.4	1.0	< 1.1	< 0.20	0.70 J	0.13 J	0.91 J	0.17 J	< 1.1	< 0.20	< 1.1	< 0.20	1.3	0.24	< 1.1	< 0.20

- General Notes:**
- 1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 - 2. µg/m³ = micrograms per cubic meter.
 - 3. ppbv = parts per billion by volume.
 - 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 - 5. Refer to Figure 4-3 for air sampling locations.
 - 6. The sub-slab depressurization system (SSDS) and soil vapor extraction (SVE) system began operating on April 30, 2007 and August 22, 2007, respectively.

- Qualifying Notes:**
- J The reported result is below the laboratory reporting limit and is estimated.
 - G The reported result is estimated due to duplicate precision outside control limits.
 - J+ The reported result is estimated.

Table 4-3
Chemical Testing Results - Indoor and Outdoor Air
50 Tufts Street
Somerville, Massachusetts

Analyte		Location Name:		North Parking Lot															
		Sample Name:		50T-NP		NP		50Tufts-NP		50T-NP		50TUFTS-NP		50TUFTS-NP2		50T-NP		50TUFTS-NP	
		Sample Date:		5/1/07		5/14/07		6/28/07		8/28/07		10/4/07		10/4/07		12/7/07		5/1/08	
		Units:		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Method																			
Volatile Organic Compounds (VOCs)		TO-15																	
Carbon tetrachloride				0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20	0.63 J	0.10 J	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	0.63 J	0.10 J
Dichloroethane, 1, 1-				< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1, 2-				< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, 1, 1-				< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)				1.8	0.26	7.5	1.1	12 G	1.7 G	14	2.0	3.9	0.57	7.5	1.1	2.2	0.33	0.65 J	0.096 J
Trichloroethane, 1, 1, 1- (TCA)				0.38 J	0.070 J	0.98 J	0.18 J	2.0	0.36	2.0	0.36	0.50 J	0.091 J	1.2	0.22	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)				< 1.1	< 0.20	0.64 J	0.12 J	1.6	0.3	1.6	0.29	< 1.1	< 0.20	0.75 J	0.14 J	< 1.1	< 0.20	< 1.1	< 0.20

- General Notes:**
- 1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 - 2. µg/m³ = micrograms per cubic meter.
 - 3. ppbv = parts per billion by volume.
 - 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 - 5. Refer to Figure 4-3 for air sampling locations.
 - 6. The sub-slab depressurization system (SSDS) and soil vapor extraction (SVE) system began operating on April 30, 2007 and August 22, 2007, respectively.

- Qualifying Notes:**
- J The reported result is below the laboratory reporting limit and is estimated.
 - G The reported result is estimated due to duplicate precision outside control limits.
 - J+ The reported result is estimated.

Table 4-3
Chemical Testing Results - Indoor and Outdoor Air
50 Tufts Street
Somerville, Massachusetts

Location Name: Sample Name: Sample Date: Units:		North Warehouse															
		50T-NW		NW		50Tufts-NW		50T-NW		50TUFTS-NW		50T-NW		50TUFTS-NW		50TUFTS-NW	
		5/1/07		5/14/07		6/28/07		8/28/07		10/4/07		12/7/07		5/1/08		3/9/09	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		0.75 J	0.12 J	< 1.3	< 0.20	0.69 J	0.11 J	0.69 J	0.11 J	< 1.3	< 0.20	0.63 J	0.10 J	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		33	4.8	11	1.6	15	2.2	45	6.6	12	1.8	12	1.7	6.1	0.90	5.0	0.73
Trichloroethane,1,1,1- (TCA)		2.6	0.48	< 1.1	< 0.20	0.60 J	0.11 J	4.0	0.73	< 1.1	< 0.20	< 1.1	< 0.20	0.82 J	0.15 J	< 1.1	< 0.20
Trichloroethylene (TCE)		4.1	0.76	< 1.1	< 0.20	< 1.1	< 0.20	2.8	0.53	< 1.1	< 0.20	< 1.1	< 0.20	1.7	0.31	< 1.1	< 0.20

- General Notes:**
- 1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 - 2. µg/m³ = micrograms per cubic meter.
 - 3. ppbv = parts per billion by volume.
 - 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 - 5. Refer to Figure 4-3 for air sampling locations.
 - 6. The sub-slab depressurization system (SSDS) and soil vapor extraction (SVE) system began operating on April 30, 2007 and August 22, 2007, respectively.

- Qualifying Notes:**
- J The reported result is below the laboratory reporting limit and is estimated.
 - G The reported result is estimated due to duplicate precision outside control limits.
 - J+ The reported result is estimated.

Table 4-3
Chemical Testing Results - Indoor and Outdoor Air
50 Tufts Street
Somerville, Massachusetts

Location Name: Sample Name: Sample Date: Units:		South Central Warehouse																	
		50TUFTS-SC		50T-IA (FD)		SC		IA (FD)		50Tufts-SC		50Tufts-IA (FD)		50T-SC		50T-IA (FD)		50TUFTS-SC1	
		5/1/07		5/1/07		5/14/07		5/14/07		6/28/07		6/28/07		8/28/07		8/28/07		10/4/07	
		ppbv	ppbv	µg/m ³	µg/m ³	ppbv	ppbv	µg/m ³	µg/m ³	ppbv	ppbv	µg/m ³	µg/m ³	ppbv	ppbv	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Analyte	Method																		
Volatile Organic Compounds (VOCs)		TO-15																	
Carbon tetrachloride		< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	0.63 J	0.1 J	0.69 J	0.11 J	< 1.3	< 0.20	0.75 J	0.12 J	0.69 J	0.11 J	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		43 J+	6.4 J+	8.1 J+	1.2 J+	23 J+	3.4 J+	6.8 J+	1.0 J+	18 G J+	2.6 G J+	10 G J+	1.5 G J+	66	9.7	63	9.3	6.0	0.88
Trichloroethane,1,1,1- (TCA)		1.3	0.24	1.2	0.22	< 1.1	< 0.20	< 1.1	< 0.20	0.50 J	0.092 J	< 1.1	< 0.20	4.7	0.87	4.4	0.81	< 1.1	< 0.20
Trichloroethylene (TCE)		2.0	0.37	1.6	0.29	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	3.8	0.70	3.6	0.67	< 1.1	< 0.20

- General Notes:**
- Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 - µg/m³ = micrograms per cubic meter.
 - ppbv = parts per billion by volume.
 - "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 - Refer to Figure 4-3 for air sampling locations.
 - The sub-slab depressurization system (SSDS) and soil vapor extraction (SVE) system began operating on April 30, 2007 and August 22, 2007, respectively.

- Qualifying Notes:**
- J The reported result is below the laboratory reporting limit and is estimated.
- G The reported result is estimated due to duplicate precision outside control limits.
- J+ The reported result is estimated.

Table 4-3
Chemical Testing Results - Indoor and Outdoor Air
50 Tufts Street
Somerville, Massachusetts

Location Name: Sample Name: Sample Date: Units:		South Central Warehouse (continued)																	
		50TUFTS-SC2 (FD)		50TUFTS-SC3 (FD)		50TUFTS-SC4 (FD)		50TUFTS-SC		50T-IA (FD)		50TUFTS-SC1		50TUFTS-SC2 (FD)		50TUFTS-SC1		50TUFTS-SC2 (FD)	
		10/4/07		10/4/07		10/4/07		12/7/07		12/7/07		5/1/08		5/1/08		3/9/09		3/9/09	
		ppbv	ppbv	µg/m ³	µg/m ³	ppbv	ppbv	ppbv	ppbv	µg/m ³	µg/m ³	µg/m ³	µg/m ³	ppbv	ppbv	µg/m ³	µg/m ³	ppbv	ppbv
Analyte	Method																		
Volatile Organic Compounds (VOCs)		TO-15																	
Carbon tetrachloride		< 1.3	< 0.20	0.60 J	0.096 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		5.9	0.87	5.7	0.84	5.4	0.8	11	1.6	10	1.5	6.6	0.98	8.1	1.2	6.0	0.89	6.7	0.99
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.93 J	0.17 J	0.98 J	0.18 J	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	1.8	0.34	2.1	0.39	< 1.1	< 0.20	< 1.1	< 0.20

- General Notes:**
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 2. µg/m³ = micrograms per cubic meter.
 3. ppbv = parts per billion by volume.
 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 5. Refer to Figure 4-3 for air sampling locations.
 6. The sub-slab depressurization system (SSDS) and soil vapor extraction (SVE) system began operating on April 30, 2007 and August 22, 2007, respectively.

- Qualifying Notes:**
- J The reported result is below the laboratory reporting limit and is estimated.
 - G The reported result is estimated due to duplicate precision outside control limits.
 - J+ The reported result is estimated.

Table 4-3
Chemical Testing Results - Indoor and Outdoor Air
50 Tufts Street
Somerville, Massachusetts

Location Name: Sample Name: Sample Date: Units:		South Office															
		50T-SO		SO		50Tufts-SO		50T-SO		50TUFTS-SO		50T-SO		50TUFTS-SO		50TUFTS-SO	
		5/1/07		5/14/07		6/28/07		8/28/07		10/4/07		12/7/07		5/1/08		3/9/09	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method																
Volatile Organic Compounds (VOCs)		TO-15															
Carbon tetrachloride		0.75 J	0.12 J	< 1.3	< 0.20	0.69 J	0.11 J	0.61 J	0.097 J	< 1.3	< 0.20	0.62 J	0.098 J	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane, 1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene, 1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		38	5.6	14	2.0	18	2.7	15	2.2	5.5	0.81	11	1.6	4.8	0.71	2.4	0.36
Trichloroethane, 1,1,1- (TCA)		1.9	0.34	< 1.1	< 0.20	0.55 J	0.10 J	1.4	0.25	< 1.1	< 0.20	< 1.1	< 0.20	0.71 J	0.13 J	< 1.1	< 0.20
Trichloroethylene (TCE)		3.4	0.64	< 1.1	< 0.20	0.81 J	0.15 J	1.4	0.26	< 1.1	< 0.20	< 1.1	< 0.20	1.5	0.28	< 1.1	< 0.20

- General Notes:**
- 1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 - 2. µg/m³ = micrograms per cubic meter.
 - 3. ppbv = parts per billion by volume.
 - 4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 - 5. Refer to Figure 4-3 for air sampling locations.
 - 6. The sub-slab depressurization system (SSDS) and soil vapor extraction (SVE) system began operating on April 30, 2007 and August 22, 2007, respectively.

- Qualifying Notes:**
- J The reported result is below the laboratory reporting limit and is estimated.
 - G The reported result is estimated due to duplicate precision outside control limits.
 - J+ The reported result is estimated.

Table 4-3
Chemical Testing Results - Indoor and Outdoor Air
50 Tufts Street
Somerville, Massachusetts

Location Name: Sample Name: Sample Date: Units:		South Parking Lot																	
		50T-SP 5/1/07		SP 5/14/07		50Tufts-SP 6/28/07		50T-SP 8/28/07		50TUFTS-SP 10/4/07		50TUFTS-SP2 10/4/07		50T-SP 12/7/07		50TUFTS-SP 5/1/08		50TUFTS-SP 3/9/09	
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	µg/m ³	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
		µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	µg/m ³	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv
Analyte	Method																		
Volatile Organic Compounds (VOCs)		TO-15																	
Carbon tetrachloride		0.69 J	0.11 J	0.63 J	0.1 J	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		3.7	0.54	2.8	0.42	1.8 G	0.26 G	160	23.6	1.3 J	0.19 J	9.5	1.4	2.0	0.29	1.4	0.21	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	16	2.9	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	1.6	0.3	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	12	2.2	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

- General Notes:**
- Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
 - µg/m³ = micrograms per cubic meter.
 - ppbv = parts per billion by volume.
 - "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
 - Refer to Figure 4-3 for air sampling locations.
 - The sub-slab depressurization system (SSDS) and soil vapor extraction (SVE) system began operating on April 30, 2007 and August 22, 2007, respectively.

- Qualifying Notes:**
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- J+ The reported result is estimated.

Table 4-4
Summary of Meteorological Data During Air Sampling Events
50 Tufts Street
Somerville, Massachusetts

Sample Date	Associated Sample ID	Outside Temperature (°F)		Outside Barometric Pressure (in. Hg)		Inside Temperature (°F)		Inside Barometric Pressure (in. Hg)		Prevailing Wind Direction		General Weather Conditions		Significant precipitation within 12 hours prior to sampling?
		Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	
3/9/2009	50Tufts-GA	52	40	29.92	29.87	56	54	29.91	29.88	N	N	Cloudy	Light rain	Yes
3/9/2009	50Tufts-NC	52	40	29.92	29.87	56	54	29.91	29.88	N	N	Cloudy	Light rain	Yes
3/9/2009	50Tufts-NO	52	40	29.92	29.87	56	54	29.91	29.88	N	N	Cloudy	Light rain	Yes
3/9/2009	50Tufts-NP	52	40	29.91	29.87	NA	NA	NA	NA	N	N	Cloudy	Light rain	Yes
3/9/2009	50Tufts-NP	52	40	29.91	29.87	52	40	29.91	29.87	N	N	Cloudy	Light rain	Yes
3/9/2009	50Tufts-NW	52	40	29.92	29.87	56	54	29.90	29.88	N	N	Cloudy	Light rain	Yes
3/9/2009	50Tufts-SC1	52	40	29.92	29.87	56	54	29.90	29.88	N	N	Cloudy	Light rain	Yes
3/9/2009	50Tufts-SC2	52	40	29.92	29.87	56	54	29.90	29.88	N	N	Cloudy	Light rain	Yes
3/9/2009	50Tufts-SP	52	40	29.92	29.87	NA	NA	NA	NA	N	N	Cloudy	Light rain	Yes
3/9/2009	50Tufts-SO	52	40	29.92	29.87	58	54	29.91	29.88	N	N	Cloudy	Light rain	Yes

General Notes:

- 1 °F = degrees Fahrenheit.
- 2 in. Hg = inches of mercury.
- 3 Temperatures were measured in the field using a hand-held thermometer.
- 4 Barometric pressures were measured in the field with a Sensor Instrument Nimbus Trademark digital barometer.
- 5 NM = Not Measured.
- 6 NA = Not Applicable.

Table 5-1

Soil Boring and Monitoring Well Summary

50 Tufts Street

Somerville, Massachusetts

Location Name	Location Type	Installed By	Completion Date	Method	Well Diameter (in)	Well Screen Interval (ft bgs)	Ground Surface Elevation (ft NAVD)	Screened Strata	Total Depth (ft)	Comment
GEO-1	Monitoring Well	GeoInsight	8/12/04	HSA	2	5 - 20	26.1	Sand	20	
GEO-2	Monitoring Well	GeoInsight	8/12/04	HSA	2	5 - 20	27.1	Sand	20	
GEO-3	Monitoring Well	GeoInsight	8/13/04	HSA	2	5 - 20	25.9	Sand	20	
GEO-4	Monitoring Well	GeoInsight	8/13/04	HSA	2	4 - 19	22.1	Sand	19	
GEO-5	Monitoring Well	GeoInsight	8/16/04	HSA	2	5 - 20	20.5	Sand, Silt and Clay	20	
GEO-6	Monitoring Well	GeoInsight	8/13/04	HSA	2	5 - 20	18.1	Sand	20	
GEO-7	Soil Boring Only	GeoInsight	8/16/04	HSA	NA	NA	unknown	NA	13	
MW-1	Monitoring Well	unknown	unknown	unknown	1	unknown	26.2	unknown	unknown	Boring/well log not provided
MW-2	Monitoring Well	unknown	unknown	unknown	1	unknown	25.5	unknown	unknown	Boring/well log not provided
MW-3	Monitoring Well	unknown	unknown	unknown	1	unknown	25.4	unknown	unknown	Boring/well log not provided
SH-1	Monitoring Well	SHA	6/21/02	Geoprobe	1	9 - 14	29.7	Sand	14	
SH-2	Monitoring Well	SHA	6/21/02	Geoprobe	1	7 - 14	29.7	Sand	14	
SH-3	Monitoring Well	SHA	6/21/02	Geoprobe	1	8 - 13	29.8	Sand	13	
SH-4	Monitoring Well	SHA	6/21/02	Geoprobe	1	11 - 16	29.8	Sand	16	
SH-5	Monitoring Well	SHA	6/21/02	Geoprobe	1	8 - 13	29.7	Sand and Gravel	13	
SH-B1	Soil Boring Only	SHA	6/21/02	Geoprobe	NA	NA	unknown	NA	15	
SH-B2	Soil Boring Only	SHA	6/21/02	Geoprobe	NA	NA	unknown	NA	12	
SH-MW1	Monitoring Well	SHA	7/3/02	HSA/Rock core	2	10 - 30	24.5	Silt, Clay and Bedrock	30	
SH-MW2	Monitoring Well	SHA	7/3/02	HSA	2	10 - 25	24.7	Silt and Clay	25	
SH-MW3	Monitoring Well	SHA	7/3/02	HSA	2	10 - 24	22.9	Silt and Clay	24	
Soil Boring-1	Soil Boring Only	GeoInsight	8/12/04	HSA	NA	NA	unknown	NA	11	Possibly SB1 on Fig. 5-1
Soil Boring-2	Soil Boring Only	GeoInsight	8/12/04	HSA	NA	NA	unknown	NA	10	Possibly SB2 on Fig. 5-1
MW101	Monitoring Well	GEI	5/1/06	HSA	2	9 - 19	27.0	Sand and Gravel	19	
MW102	Monitoring Well	GEI	5/1/06	HSA	2	6 - 16	19.2	Sand, Gravel and Clay	16	
MW103	Monitoring Well	GEI	5/1/06	HSA	2	6 - 16	19.8	Sand, Gravel and Silt	16	
MW104	Monitoring Well	GEI	5/24/06	Geoprobe	1	5 - 15	17.9	Sand, Gravel and Silt	15	
MW105	Monitoring Well	GEI	5/2/06	HSA	2	19 - 29	39.6	Sand, Gravel and Silt	29	
MW106	Monitoring Well	GEI	1/5/07	Geoprobe	2	9 - 19	26.9	Sand, Gravel, Silt	21	
MW107	Monitoring Well	GEI	1/5/07	Geoprobe	2	2 - 12	15.1	Silt	21	
MW108	Monitoring Well	GEI	1/5/07	Geoprobe	2	2 - 12	13.1	Sand, Gravel, and Silt	12	

General Notes:

- Information on locations installed by GeoInsight and SHA based on boring and monitoring well logs prepared by GeoInsight and SHA, except for well diameters, which were measured in the field.
- in = inches.
- ft = feet.
- bgs = below ground surface.
- NAVD = North American Vertical Datum of 1988.
- SHA = Sanborn Head & Associates, Inc.
- NA = Not Applicable.
- Monitoring wells MW-1 through MW-2 were installed prior to SHAs investigation, which was conducted in 2002.
- HSA = Hollow Stem Auger.
- DEP = Massachusetts Department of Environmental Protection.

Table 5-1

Soil Boring and Monitoring Well Summary

50 Tufts Street

Somerville, Massachusetts

Location Name	Location Type	Installed By	Completion Date	Method	Well Diameter (in)	Well Screen Interval (ft bgs)	Ground Surface Elevation (ft NAVD)	Screened Strata	Total Depth (ft)	Comment
MW109	Monitoring Well	GEI	1/5/07	Geoprobe	2	3 - 13	24.7	Sand and Gravel	15.25	
MW110	Monitoring Well	GEI	1/8/07	Geoprobe	2	3 - 13	16.0	Silty Sand, Silt	16	
MW111	Monitoring Well	GEI	1/8/07	Geoprobe	2	4 - 14	19.4	Sand, Gravel, and Silt	16	
MW112	Monitoring Well	GEI	1/8/07	Geoprobe	2	3 - 10	18.6	Silty Sand, Silt	10	
MW112-A	Monitoring Well	GEI	3/10/07	HSA	2	4 - 19	18.1	Sand, Gravel, and Silt	19	
MW113	Monitoring Well	GEI	2/15/07	Geoprobe	2	10 - 20	26.6	Sand, Gravel, and Silt	20	
MW114	Monitoring Well	GEI	2/15/07	Geoprobe	2	7 - 17	29.8	Sand, Gravel, and Silt	17	
MW115	Monitoring Well	GEI	2/21/07	HSA	2	10 - 25	27.3	Sand, Gravel, and Silt	25	
MW116	Monitoring Well	GEI	3/10/07	HSA/Air Rotary	2	5 - 15	13.0	Bedrock	15	
MW117S	Monitoring Well	GEI	6/20/07	HSA	2	5 - 20	22.2	Fill, Silt	20	
MW117T	Monitoring Well	GEI	6/22/07	Drive&Wash/Rock Core	2	35 - 45	22.2	Till	45	
MW117D	Monitoring Well	GEI	6/20/07	HSA/Drive & Wash	2	60 - 70	22.1	Bedrock	70	
MW118S	Monitoring Well	GEI	7/2/07	HSA	2	3 - 14	15.7	Fill/Silt	14	
MW118T	Monitoring Well	GEI	6/28/07	HSA/Drive & Wash	2	39.5 - 49.5	15.7	Till	49.5	
MW118D	Monitoring Well	GEI	7/2/07	Drive&Wash/Rock Core	2	70 - 80	15.6	Bedrock	80	
MW119S	Monitoring Well	GEI	8/8/07	HSA	2	5 - 20	12.1	Fill/Silt	20	
MW119T	Monitoring Well	GEI	8/8/07	Drive & Wash	2	42 - 47	12.1	Till	48.5	
MW120S	Monitoring Well	GEI	8/8/07	HSA	2	5 - 20	12.9	Fill, Silt	20	
MW120D	Monitoring Well	GEI	8/9/07	Drive & Wash	2	28 - 38	13.1	Bedrock	38	
MW121S	Monitoring Well	GEI	10/10/07	HSA	2	5 - 20	13.0	Fill	20	
MW121D	Monitoring Well	GEI	10/12/07	Drive & Wash/Rock Core	2	32.1 - 47.1	13.1	Bedrock	48	
MW122	Monitoring Well	GEI	1/24/08	Drive & Wash	2	4 - 16	16.4	Silt	16	
MW201	Monitoring Well	GEI	7/11/07	Geoprobe	2	11 - 21	27.9	Sand and Gravel	21	
MW202	Monitoring Well	GEI	7/10/07	Geoprobe	2	10.5 - 20.5	28.1	Fill, Sand and Gravel	20.5	
MW203	Monitoring Well	GEI	7/11/07	Geoprobe	2	6 - 18	22.1	Till	18	
MW-CS-1	Monitoring Well	unknown	unknown	unknown	2	unknown	41.4	unknown	unknown	
MW DEP A	Pizeometer	DEP	5/30/07	Hand Tools	1	NA	unknown	unknown	unknown	
MW DEP B	Pizeometer	DEP	5/30/07	Hand Tools	1	NA	unknown	unknown	unknown	
MW DEP C	Pizeometer	DEP	5/30/07	Hand Tools	1	NA	unknown	unknown	unknown	

General Notes:

- Information on locations installed by Geolnsight and SHA based on boring and monitoring well logs prepared by Geolnsight and SHA, except for well diameters, which were measured in the field.
- in = inches.
- ft = feet.
- bgs = below ground surface.
- NAVD = North American Vertical Datum of 1988.
- SHA = Sanborn Head & Associates, Inc.
- NA = Not Applicable.
- Monitoring wells MW-1 through MW-2 were installed prior to SHAs investigation, which was conducted in 2002.
- HSA = Hollow Stem Auger.
- DEP = Massachusetts Department of Environmental Protection.

Table 5-2
Summary of Groundwater Sampling Activities, October 1, 2008 to April 10, 2009
 50 Tufts Street
 Somerville, Massachusetts

Sampling Event and Date	Sampled Locations	QA/QC Samples
Quarterly Groundwater Sampling 10/21/2008 10/22/2008	MW104, GEO-1, GEO-2 MW116, MW117S, MW117T, MW117D, MW118S, MW118T, MW118D, MW202, MW-3 MW105, MW112A, MW119S, MW119T, MW120S, MW120D, MW121S, MW121D, MW122	Sample from MW104 was used for MS/MSD Field duplicate MW112A (MW901) Field duplicate MW121D (MW900)
Quarterly Groundwater Sampling 1/12/2009 1/13/2009 1/14/2009	MW105, MW112A, MW121S, MW121D, MW122 GEO-1, GEO-2, MW117S, MW117T, MW117D, MW119S, MW119T, MW120S, MW120D, MW104, MW-3, MW116, MW118S, MW118T, MW118D	Field duplicate MW112A (MW900) Field duplicate MW121D (MW901) NA Sample from MW104 was used for MS/MSD

General Notes:

1. NA = not applicable.
2. QA/QC = quality assurance/quality check.
3. MS/MSD = matrix spike/matrix spike duplicate.
4. VOC = volatile organic compound.
5. All groundwater samples submitted for VOCs testing.

Table 5-3
Monthly Groundwater Elevations
50 Tufts Street
Somerville, Massachusetts

Monitoring Well ID	Well Screen Interval (ft bgs)	Gauging Date:	5/15/2006		5/16/2006		5/23/2006		5/31/2006		7/24/2006		8/1/2006		8/3/2006		8/16/2006		9/29/2006		10/4/2006	
		Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	9.69	16.21	9.53	16.37	10.9	15	11.39	14.51	--	--	--	--	--	--	11.9	14	--	--	11.88	14.02
MW-2	unknown	25.38	8.99	16.39	10.36	15.02	Dry	Dry	Dry	Dry	--	--	--	--	--	--	Dry	Dry	--	--	--	--
MW-3	unknown	25.31	8.88	16.43	9.32	15.99	11.16	14.15	12.71	12.6	--	--	--	--	--	--	13.73	11.58	--	--	13.75	11.56
MW-101	9-19	26.75	--	--	10.56	16.19	11.53	15.22	12.1	14.65	12.33	14.42	12.51	14.24	13.47	13.28	12.78	13.97	12.85	13.9	12.76	13.99
MW-102	6-16	18.89	--	--	6.62	12.27	6.86	12.03	7.44	11.45	7.93	10.96	8.16	10.73	9.11	9.78	8.51	10.38	8.68	10.21	8.52	10.37
MW-103	6-16	19.47	--	--	9.5	9.97	10.37	9.1	10.74	8.73	11.15	8.32	11.31	8.16	12.24	7.23	11.72	7.75	11.98	7.49	11.92	7.55
MW-104	5-15	17.67	--	--	--	--	7.93	9.74	8.89	8.78	9.06	8.61	9.39	8.28	10.29	7.38	9.87	7.8	9.95	7.72	9.92	7.75
MW-105	19-29	38.84	--	--	19.49	19.35	20.21	18.63	20.7	18.14	21.18	17.66	21.43	17.41	22.41	16.43	21.91	16.93	22.27	16.57	22.18	16.66
MW-106	9 - 19	26.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-107	2 - 12	14.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108	2 - 12	12.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-109	3 - 13	24.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110	3 - 13	15.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111	4 - 14	18.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112	3 - 10	18.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112a	4-19	17.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-113	10-20	26.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114	7-17	29.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-115	10-25	27.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-116	5-15	13.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117S	5 - 20	21.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117T	35 - 45	21.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117D	60 - 70	21.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118S	3 - 14	15.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118T	39.5 - 49.5	15.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118D	70 - 80	15.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-119S	5 - 20	11.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-119T	42 - 47	11.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-120S	5 - 20	12.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-120D	28 - 38	12.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121S	5 - 20	12.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121D	32 - 47	12.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-122	4 - 16	16.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GEO-1	5 - 20	25.88	9.69	16.19	9.9	15.98	10.92	14.96	11.36	14.52	--	--	--	--	--	--	11.82	14.06	--	--	11.85	14.03
GEO-2	5 - 20	26.54	9.76	16.78	--	--	11.38	15.16	11.91	14.63	--	--	--	--	--	--	12.51	14.03	--	--	12.51	14.03
GEO-3	5 - 20	25.64	10.43	15.21	9.59	16.05	9.87	15.77	10.67	14.97	11.67	13.97	11.85	13.79	12.84	12.8	12.25	13.39	12.37	2.84	12.35	13.29
GEO-4	4 - 19	21.69	--	--	7.79	13.9	9.85	11.84	10.78	10.91	11.25	10.44	11.45	10.24	12.43	9.26	11.9	9.79	12.09	9.6	12.04	9.65
GEO-5	5 - 20	20.14	--	--	6.78	13.36	9.08	11.06	9.96	10.18	10.29	9.85	10.56	9.58	11.51	8.63	10.99	9.15	11.21	8.93	11.15	8.99
GEO-6	5 - 20	17.62	--	--	5.66	11.96	7.39	10.23	8.23	9.39	8.43	9.19	8.73	8.89	9.64	7.98	9.25	8.37	9.41	8.21	9.26	8.36
SH-1	9 - 14	29.55	10.15	19.4	11.4	18.15	Dry	Dry	Dry	Dry	--	--	--	--	--	--	Dry	Dry	--	--	Dry	Dry
SH-2	7 - 14	29.64	5.71	23.93	7.86	21.78	12.07	17.57	12.22	17.42	--	--	--	--	--	--	11.98	17.66	--	--	12	17.64
SH-3	8 - 13	29.66	7.54	22.12	8.56	21.1	12.73	16.93	12.96	16.7	--	--	--	--	--	--	Dry	Dry	--	--	Dry	Dry
SH-4	11 - 16	29.63	13.53	16.1	13.48	16.15	14.48	15.15	15.02	14.61	--	--	--	--	--	--	15.09	14.54	--	--	15.1	14.53
SH-5	8 - 13	29.63	Dry	Dry	--	--	12.99	16.64	13.03	16.6	--	--	--	--	--	--	Dry	Dry	--	--	Dry	Dry
SH-MW1	10 - 30	24.02	6.72	17.3	--	--	11.44	12.58	12.18	11.84	--	--	--	--	--	--	13.09	10.93	--	--	13.17	10.85
SH-MW2	10 - 25	24.27	9.33	14.94	--	--	12.05	12.22	12.69	11.58	--	--	--	--	--	--	13.38	10.89	--	--	13.41	10.86
SH-MW3	10 - 24	22.31	7.8	14.51	--	--	10.26	12.05	11.03	11.28	--	--	--	--	--	--	13	9.31	--	--	12.04	10.27
MW201	11-21	27.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW202	10.5-20.5	27.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW203	6-18	21.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- General Notes:**
- ft = feet.
 - bgs = below ground surface.
 - NAVD = North American Vertical Datum of 1988.
 - The top of the PVC riser was used as the measuring point for depth to groundwater.
 - "--" = Well not yet installed, or not measured.

Table 5-3
Monthly Groundwater Elevations
50 Tufts Street
Somerville, Massachusetts

Gauging Date:			11/14/2006		12/12/2006		1/16/2007		2/12/2007		3/14/2007		4/12/2007		5/29/2007		6/26/2007		7/16/2007		8/22/2007	
Monitoring Well ID	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	--	--	--	--	11.6	14.3	--	--	--	--	11.39	14.51	11.41	14.49	11.8	14.1	12.04	13.86	--	--
MW-2	unknown	25.38	--	--	--	--	Destroyed	Destroyed	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	unknown	25.31	--	--	--	--	13.05	12.26	--	--	--	--	12.57	12.74	14.89	10.42	13.6	11.71	13.94	11.37	--	--
MW-101	9-19	26.75	12.25	14.5	12.57	14.18	12.4	14.35	12.81	13.94	12.34	14.41	12.11	14.64	12.17	14.58	12.62	14.13	12.85	13.9	13.03	13.72
MW-102	6-16	18.89	7.64	11.25	8.01	10.88	7.72	11.17	8.52	10.37	--	--	7.46	11.43	6.72	12.17	8.36	10.53	8.74	10.15	9.08	9.81
MW-103	6-16	19.47	11	8.47	11.21	8.26	10.88	8.59	11.74	7.73	11	8.47	10.66	8.81	10.81	8.66	11.47	8	11.92	7.55	12.3	7.17
MW-104	5-15	17.67	--	--	--	--	8.73	8.94	--	--	--	--	8.75	8.92	--	--	9.62	8.05	10.09	7.58	10.36	7.31
MW-105	19-29	38.84	21.16	17.68	21.76	17.08	21.46	17.38	22.03	16.81	21.56	17.28	20.88	17.96	20.86	17.98	21.55	17.29	22.13	16.71	22.79	16.05
MW-106	9 - 19	26.33	--	--	--	--	--	--	12.27	14.06	12.91	13.42	11.65	14.68	11.69	14.64	12.07	14.26	12.33	14	12.48	13.85
MW-107	2 - 12	14.63	--	--	--	--	--	--	4.54	10.09	4.5	10.13	4.49	10.14	4.46	10.17	4.48	10.15	4.52	10.11	4.75	9.88
MW-108	2 - 12	12.74	--	--	--	--	--	--	4.93	7.81	4.02	8.72	9.91	2.83	4.25	8.49	5.06	7.68	6.59	6.15	6.25	6.49
MW-109	3 - 13	24.12	--	--	--	--	--	--	12.07	12.05	11.27	12.85	10.27	13.85	10.73	13.39	11.76	12.36	12.24	11.88	Dry	Dry
MW-110	3 - 13	15.58	--	--	--	--	--	--	5.99	9.59	1.46	14.12	1.04	14.54	2.56	13.02	6.57	9.01	7.17	8.41	7.86	7.72
MW-111	4 - 14	18.95	--	--	--	--	--	--	11.38	7.57	10.62	8.33	10.65	8.3	10.68	8.27	11.11	7.84	11.54	7.41	11.96	6.99
MW-112	3 - 10	18.16	--	--	--	--	--	--	Dry	Dry	8.01	10.15	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
MW-112a	4-19	17.78	--	--	--	--	--	--	--	--	12.76	5.02	12.76	5.02	12.67	5.11	12.81	4.97	12.88	4.9	--	--
MW-113	10-20	26.16	--	--	--	--	--	--	--	--	11.66	14.5	11.44	14.72	11.51	14.65	11.99	14.17	12.22	13.94	12.43	13.73
MW-114	7-17	29.43	--	--	--	--	--	--	--	--	12.67	16.76	11.27	18.16	11.53	17.9	12.88	16.55	15.57	13.86	14.24	15.19
MW-115	10-25	27.15	--	--	--	--	--	--	--	--	17.19	9.96	16.21	10.94	16.63	10.52	17.42	9.73	17.97	9.18	18.38	8.77
MW-116	5-15	13.45	--	--	--	--	--	--	--	--	8.78	4.67	8.34	5.11	8.65	4.8	8.76	4.69	--	--	8.85	4.6
MW-117S	5 - 20	21.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15.27	6.67	15.7	6.24
MW-117T	35 - 45	21.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15.95	5.92	16.38	5.49
MW-117D	60 - 70	21.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15.87	5.91	16.26	5.52
MW-118S	3 - 14	15.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.64	3.88	9.84	5.68
MW-118T	39.5 - 49.5	15.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.36	4.94	10.51	4.79
MW-118D	70 - 80	15.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.18	4.97	10.32	4.83
MW-119S	5 - 20	11.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.91	6.83
MW-119T	42 - 47	11.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.45	5.22
MW-120S	5 - 20	12.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.25	7.29
MW-120D	28 - 38	12.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121S	5 - 20	12.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121D	32 - 47	12.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-122	4 - 16	16.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GEO-1	5 - 20	25.88	--	--	--	--	11.55	14.33	--	--	--	--	11.36	14.52	11.38	14.5	11.73	14.15	11.93	13.95	12.1	13.78
GEO-2	5 - 20	26.54	--	--	--	--	12.2	14.34	--	--	--	--	11.97	14.57	11.99	14.55	12.4	14.14	13.6	12.94	12.81	13.73
GEO-3	5 - 20	25.64	11.63	14.01	11.72	13.92	11.58	14.06	12.21	13.43	11.49	14.15	10.76	14.88	11.04	14.6	11.94	13.7	---	---	12.7	12.94
GEO-4	4 - 19	21.69	10.58	11.11	11.31	10.38	10.77	10.92	11.83	9.86	11.03	10.66	10.51	11.18	10.87	10.82	11.64	10.05	12.09	9.6	12.55	9.14
GEO-5	5 - 20	20.14	9.47	10.67	10.48	9.66	9.73	10.41	11.02	9.12	10.15	9.99	9.7	10.44	10.01	10.13	10.79	9.35	11.25	8.89	11.74	8.4
GEO-6	5 - 20	17.62	7.65	9.97	8.82	8.8	8.11	9.51	9.3	8.32	8.54	9.08	8.32	9.3	8.25	9.37	8.9	8.72	9.5	8.12	9.92	7.7
SH-1	9 - 14	29.55	--	--	--	--	Dry	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-2	7 - 14	29.64	--	--	--	--	Dry	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-3	8 - 13	29.66	--	--	--	--	Dry	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-4	11 - 16	29.63	--	--	--	--	Dry	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-5	8 - 13	29.63	--	--	--	--	Dry	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW1	10 - 30	24.02	--	--	--	--	12.21	11.81	--	--	--	--	12.01	12.01	12.26	11.76	---	---	---	---	--	--
SH-MW2	10 - 25	24.27	--	--	--	--	12.73	11.54	--	--	--	--	12.61	11.66	12.74	11.53	13.25	11.02	13.48	10.79	13.72	10.55
SH-MW3	10 - 24	22.31	--	--	--	--	11.04	11.27	--	--	--	--	10.81	11.5	--	--	11.72	10.59	12.08	10.23	12.43	9.88
MW201	11-21	27.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.71	13.8
MW202	10.5-20.5	27.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.99	13.83
MW203	6-18	21.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14.05	7.75

- General Notes:**
- ft = feet.
 - bgs = below ground surface.
 - NAVD = North American Vertical Datum of 1988.
 - The top of the PVC riser was used as the measuring point for depth to groundwater.
 - "--" = Well not yet installed, or not measured.

Table 5-3
Monthly Groundwater Elevations
50 Tufts Street
Somerville, Massachusetts

Monitoring Well ID	Well Screen Interval (ft bgs)	Gauging Date:	9/27/2007		10/23/2007		11/30/2007		1/9/2008		2/26/2008		3/18/2008		4/15/2008		5/19/2008		7/14/08		8/22/08		10/20/08		1/13/09	
		Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.90	12.26	--	12.07	--	11.95	13.95	--	--	--	--	--	--	11.42	--	11.57	--	--	--	--	--	--	--	--	--
MW-2	unknown	25.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	unknown	25.31	14.34	10.97	13.94	11.37	13.75	11.56	12.86	12.45	12.05	13.26	12.37	12.94	12.81	---	12.99	---	--	--	--	--	--	--	12.49	12.82
MW-101	9-19	26.75	13.17	13.58	12.91	13.84	13.82	12.93	12.11	14.64	--	--	11.85	14.9	12.02	14.73	12.26	14.49	13.11	13.64	--	--	12.61	14.14	12.07	14.68
MW-102	6-16	18.89	9.35	9.54	8.97	9.92	8.01	10.88	7.46	11.43	7.29	11.6	7.17	11.72	8.57	10.32	7.9	10.99	9.51	9.38	8.00	10.89	8.49	10.4	7.50	11.39
MW-103	6-16	19.47	12.63	6.84	--	--	12.18	7.29	10.74	8.73	10.51	8.96	10.5	8.97	10.82	8.65	11.11	8.36	12.17	7.30	11.17	8.30	11.87	7.6	10.73	8.74
MW-104	5-15	17.67	10.61	7.06	10.31	7.36	10.07	7.6	8.86	8.81	8.61	9.06	8.48	9.19	9.84	7.83	9.25	8.42	9.67	8.00	9.06	8.61	9.72	7.95	8.71	8.96
MW-105	19-29	38.84	23.18	15.66	22.96	15.88	22.74	16.1	21.39	17.45	20.79	18.05	20.41	18.43	20.91	17.93	21.24	17.6	22.02	16.82	21.40	17.44	21.8	17.04	20.9	17.94
MW-106	9 - 19	26.33	12.61	13.72	12.39	13.94	12.27	14.06	11.71	14.62	11.51	14.82	11.38	14.95	12.54	13.79	11.72	14.61	11.68	14.65	11.73	14.60	11.64	14.69	11.6	14.73
MW-107	2 - 12	14.63	4.51	10.12	4.47	10.16	4.44	10.19	4.35	10.28	--	--	4.46	--	5.58	9.05	---	---	4.52	10.11	4.41	10.22	4.49	10.14	4.5	10.13
MW-108	2 - 12	12.74	6.28	6.46	5.86	6.88	4.74	8	3.71	9.03	4.61	8.13	3.68	9.06	3.91	8.83	3.99	8.75	5.16	7.58	4.44	8.30	4.71	8.03	3.4	9.34
MW-109	3 - 13	24.12	Dry	Dry	Dry	Dry	12.78	11.34	10.64	13.48	10.06	14.06	10.02	14.1	11.64	12.48	11.29	12.83	11.87	12.25	11.18	12.94	11.73	12.39	10.43	13.69
MW-110	3 - 13	15.58	8.37	7.21	6.92	8.66	3.34	12.24	--	--	0.79	14.79	1.12	--	1.57	14.01	2.5	13.08	--	--	3.59	--	--	--	1.45	14.13
MW-111	4 - 14	18.95	12.34	6.61	11.99	6.96	12.27	6.68	10.51	8.44	10.5	8.45	10.54	8.41	16.64	2.31	10.71	8.24	12.23	6.72	10.73	8.22	11.37	7.58	10.55	8.4
MW-112	3 - 10	18.16	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	--	--	---	---	---	---	--	--	8.33	--	--	--	--	--
MW-112a	4-19	17.78	12.95	4.83	12.8	4.98	--	--	12.43	5.35	12.52	5.26	12.61	5.17	13.71	4.07	12.77	5.01	13.56	4.22	12.93	4.85	13.01	4.77	12.78	5
MW-113	10-20	26.16	12.58	13.58	12.3	13.86	12.6	13.56	11.5	14.66	11.28	14.88	11.15	15.01	11.39	14.77	11.62	14.54	12.01	14.15	11.63	14.53	11.99	14.17	11.41	14.75
MW-114	7-17	29.43	14.84	14.59	14.66	14.77	14.31	15.12	12.08	17.35	11.11	18.32	10.75	18.68	12.42	17.01	12.3	17.13	13.24	16.19	12.21	17.22	13.19	16.24	11.25	18.18
MW-115	10-25	27.15	18.81	8.34	18.37	8.78	18.24	8.91	16.18	10.97	15.85	11.3	15.86	11.29	16.45	10.7	16.72	10.43	18.49	8.66	16.78	10.37	17.8	9.35	16.35	10.8
MW-116	5-15	13.45	8.91	4.54	8.83	4.62	--	--	8.6	4.85	8.68	4.77	8.77	4.68	8.85	4.6	8.88	4.57	9.09	4.36	9.01	4.44	--	--	8.94	--
MW-117S	5 - 20	21.94	16.03	5.91	16.2	5.74	15.95	5.99	13.97	7.97	13.52	8.42	13.5	8.44	14.22	7.72	14.6	7.34	14.99	6.95	13.90	8.04	14.67	7.27	14.02	7.92
MW-117T	35 - 45	21.87	16.81	5.06	16.91	4.96	16.58	5.29	14.58	7.29	13.97	7.9	13.9	7.97	14.67	7.2	14.94	6.93	15.68	6.19	15.27	6.60	15.26	6.61	14.45	7.42
MW-117D	60 - 70	21.78	16.69	5.09	16.77	5.01	16.44	5.34	14.46	7.32	13.86	7.92	13.81	7.97	14.51	7.27	14.89	6.89	15.61	6.17	14.67	7.11	15.27	6.51	14.3	7.48
MW-118S	3 - 14	15.52	10.2	5.32	9.42	6.1	9.4	6.12	8.55	6.97	8.34	7.18	8.4	7.12	10	5.52	9.38	6.14	9.64	5.88	8.48	7.04	9.05	6.47	8.41	7.11
MW-118T	39.5 - 49.5	15.30	10.74	4.56	10.68	4.62	10.5	4.8	9.93	5.37	9.49	5.81	9.53	5.77	9.83	5.47	9.94	5.36	10.35	4.95	9.92	5.38	10.19	5.11	9.73	5.57
MW-118D	70 - 80	15.15	10.55	4.6	10.49	4.66	10.25	4.9	9.55	5.6	9.3	5.85	9.35	5.8	9.64	5.51	9.8	5.35	10.11	5.04	9.70	5.45	9.99	5.16	9.54	5.61
MW-119S	5 - 20	11.74	4.99	6.75	4.93	6.81	4.85	6.89	4.63	7.11	4.6	7.14	4.56	7.18	4.91	6.83	4.92	6.82	4.94	6.80	6.08	5.66	4.08	7.66	4.41	7.33
MW-119T	42 - 47	11.67	6.8	4.87	6.72	4.95	6.57	5.1	5.82	5.85	5.63	6.04	5.78	5.89	5.97	5.7	6.1	5.57	6.52	5.15	4.52	7.15	6.78	4.89	5.85	5.82
MW-120S	5 - 20	12.54	5.35	7.19	4.71	7.83	4.62	7.92	3.51	9.03	4.06	8.48	4	8.54	5.1	7.44	4.57	7.97	5.18	7.36	4.61	7.93	4.01	8.53	4.03	8.51
MW-120D	28 - 38	12.45	4.21	8.24	3.94	8.51	3.48	8.97	3.17	9.28	2.96	9.49	3.11	9.34	3.26	9.19	3.44	9.01	3.82	8.63	2.90	9.55	3.32	9.13	3.18	9.27
MW-121S	5 - 20	12.44	--	--	7.36	5.08	7.41	5.03	7.24	5.2	7.36	5.08	7.41	5.03	9.39	3.05	7.29	5.15	9.21	3.23	7.70	4.74	9.01	3.43	7.68	4.76
MW-121D	32 - 47	12.81	--	--	7.92	4.89	7.75	5.06	6.95	5.86	6.83	5.98	6.91	5.9	7.											

Table 5-4
Chemical Testing Results - Groundwater
50 Tufts Street
Somerville, Massachusetts

Sample Location:			GEO-4 (continued)			GEO-5					GEO-6							MW-1					MW101		
Sample Name:			GEO-4	GEO-4	GEO4	GEO-5	GEO-5	GEO-5	GEO-5	GEO5	GEO-6	GEO-6	GEO-6	GEO-6	MW900 (FD)	GEO6	MW901 (FD)	MW-1	MW-1	MW-1	MW-1	MW1	MW-101	MW101	MW101
Well Screen Interval (ft bgs):			4 to 19	4 to 19	4 to 19	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	Unknown	Unknown	Unknown	Unknown	Unknown	9 to 19	9 to 19	9 to 19
Sample Date:			10/4/06	1/16/07	4/16/07	8/16/04	5/24/06	10/4/06	1/16/07	5 to 20	8/16/04	5/24/06	10/4/06	5 to 20	1/16/07	4/16/07	5 to 20	7/1/02	8/9/04	5/23/06	1/17/07	4/17/07	5/24/06	10/5/06	1/17/07
Collected By:			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	Geolnsight	GEI	GEI	GEI	GEI	GEI	GEI	SHA	Geolnsight	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	Method	Units																							
Volatile Organic Compounds (VOCs)																									
Acetone	8260	µg/l	< 5.0	< 100	< 50	< 2000	< 5.0	< 5.0	< 250	< 5.0	< 200	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 50000	< 40000	40	36.1	< 2500	< 5.0	< 5.0	< 5.0
Benzene			< 0.50	< 10	< 5.0	< 100	< 0.50	< 0.50	< 25	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 5000	< 2000	2	< 0.50	< 250	< 0.50	< 0.50	< 0.50
Bromobenzene			< 5.0	< 100	< 50	< 100	< 5.0	< 5.0	< 250	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 25000	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0
Bromodichloromethane			< 1.0	< 20	< 10	< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5000	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0
Bromoform			< 1.0	< 20	< 10	< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5000	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0
Butanone,2- (MEK)			< 5.0	< 100	< 50	< 1000	< 5.0	< 5.0	< 250	< 5.0	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 50000	< 4000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0
Butylbenzene, n-			< 5.0	< 100	< 50	< 100	< 5.0	< 5.0	< 250	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 50000	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0
Carbon disulfide			< 5.0	< 100	< 50	< 100	< 5.0	< 5.0	< 250	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5000	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			< 1.0	< 20	< 10	< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 5.0	< 5.0	0.81 J	< 5.0	< 10	< 5.0	< 50000	< 10000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0
Chlorobenzene			< 1.0	< 20	< 10	< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5000	< 2000	19	22.4	< 500	< 1.0	< 1.0	< 1.0
Chloroethane			< 2.0	< 40	< 20	< 200	< 2.0	< 2.0	< 100	< 2.0	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 5000	< 2000	1.1	1.2	< 500	< 1.0	< 1.0	< 1.0
Chloroform			2.5	< 20	< 10	< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 10000	< 4000	< 2.0	< 2.0	< 1000	< 2.0	< 2.0	< 2.0
Chloromethane			< 2.0	< 40	< 20	< 200	< 2.0	< 2.0	< 100	< 2.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 7500	< 2000	3.7	1.6	< 500	< 1.0	< 1.0	< 1.0
Dichlorobenzene,1,3-			< 1.0	< 20	< 10	< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 2.0	< 25000	< 4000	< 2.0	14.6	< 1000	< 2.0	< 2.0	< 2.0
Dichlorodifluoromethane			< 2.0	< 40	< 20	< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 25000	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0
Dichloroethane,1,1-			7.1	< 20	< 10	< 100	3	9.7	< 50	< 1.0	< 10	2	4.4	1.7	1.6	0.92 J	1.1	< 7500	< 2000	59.8	59.9	< 500	< 1.0	< 1.0	< 1.0
Dichloroethane,1,2-			< 1.0	< 20	< 10	< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5000	< 2000	4	< 1.0	< 500	< 1.0	< 1.0	< 1.0
Dichloroethylene, cis-1,2-			16.7	< 20	5.5 J	< 100	12.5	35.2	< 50	< 1.0	14.8	9.1	15.4	7.7	6.9	5.3	6.3	< 5000	< 2000	24.3	7.7	< 500	< 1.0	< 1.0	< 1.0
Dichloroethylene,1,1-			17.8	< 20	< 10	< 100	8.9	32.7	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5000	< 2000	24.3	7.7	< 500	< 1.0	< 1.0	1.3
Dichloropropane,1,2-			< 2.0	< 40	< 20	< 100	< 2.0	< 2.0	< 100	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 5000	< 2000	0.42 J	1.8 J	< 2500	< 5.0	< 5.0	< 5.0
Dioxane,1,4-			< 25 R	< 500	< 250	NT	< 25	< 25 R	< 1300	< 25	NT	< 25	< 25 R	< 25	< 25	< 25	NT	< 18000	< 2000	4.5	< 2.0	< 1000	< 2.0	< 2.0	< 2.0
Ethylbenzene			< 1.0	< 20	< 10	< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5000	< 2000	2.8	4.4	< 500	< 1.0	< 1.0	< 1.0
Hexanone,2-			< 5.0	< 100	< 50	< 1000	< 5.0	< 5.0	< 250	< 5.0	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 50000	< 20000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0
Isopropyl benzene			< 5.0	< 100	< 50	< 100	< 5.0	< 5.0	< 250	< 5.0	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5000	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			1.5 J+	< 20	< 10	< 100	1.3	3.3 J+	< 50	< 1.0	< 10	1.3	1.9 J+	1.2	1.2	0.80 J	0.81 J	< 10000	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0
Methylene chloride			< 2.0	< 40	< 20	< 1000	< 2.0	< 2.0	< 100	< 2.0	< 100	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 50000	< 20000	< 2.0	< 2.0	< 1000	< 2.0	< 2.0	< 2.0
Naphthalene			< 5.0	< 100	< 50	< 100	< 5.0	< 5.0	< 250	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 50000	< 20000	< 2.0	< 2.0	< 1000	< 2.0	< 2.0	< 2.0
Propylbenzene, n-			< 5.0	< 100	< 50	< 100	< 5.0	< 5.0	< 250	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 50000	< 2000	< 5.0	2.4 J	< 2500	< 5.0	< 5.0	< 5.0
Tertiary-amyl methyl ether			< 2.0	< 40	< 20	NT	<																		

Table 5-4
Chemical Testing Results - Groundwater
50 Tufts Street
Somerville, Massachusetts

Sample Location:			MW101 (continued)		MW102																	MW103						MW104									
Sample Name:			MW101	MW900	MW-102	MW102	MW-102	MW102	MW102	MW102	MW102	MW102	MW-103	MW103	MW103	MW-103	MW103	MW103	MW-104	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW104									
Well Screen Interval (ft bgs):			9 to 19	9 to 19	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	5 to 15	5 to 15	6 to 16	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15										
Sample Date:			4/13/07	4/13/07	5/24/06	10/5/06	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	5/23/06	5 to 15	5 to 15	6 to 16	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15										
Collected By:			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI										
Analyte	Method	Units																																			
Volatile Organic Compounds (VOCs)																																					
Acetone	8260	µg/l	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	4.0 J	< 5.0	< 5.0	< 5.0								
Benzene			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	0.6	< 0.50	< 0.50	NT	0.43 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50							
Bromobenzene			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0							
Bromodichloromethane			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0						
Bromoform			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0						
Butanone, 2- (MEK)			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0						
Butylbenzene, n-			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0						
Carbon disulfide			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0						
Carbon tetrachloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	0.37 J	< 5.0	< 5.0	< 5.0	< 5.0						
Chlorobenzene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0						
Chloroethane			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0						
Chloroform			< 1.0	1.8	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.7	10.3	6.1	4.7	6.9	5.6	2.3	< 2.0	3.9	5.9	< 2.0	< 2.0						
Chloromethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0						
Dichlorobenzene, 1,3-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0						
Dichlorodifluoromethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 0.27 J	< 1.0	< 1.0	< 1.0	< 1.0						
Dichloroethane, 1,1-			< 1.0	1.6	< 1.0	0.88 J	< 1.0	< 1.0	< 1.0	0.42 J	2.1	4.1	0.51 J	27.2	3.7	13	11.5	10.1	7.9	33	98.9	57.1	46.8	68.3	86.6	38.7	33.0	< 2.0 J+	< 2.0	< 2.0	< 2.0						
Dichloroethylene, cis-1,2-			3.9 G	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0						
Dichloroethylene, 1,1-			< 1.0	2.1 G	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0						
Dichloropropane, 1,2-			< 1.0	4.6 G	6.3	50.2	30	< 1.0	< 1.0	23.6	39.7	51.8	22.2 C+	13.4	2	6.5	4.3	4.3	8	3.3	9.4	2.9	10	2.6	4.5	1.7	1.8	5.1	2.4	2.6	2.6						
Dioxane, 1,4-			< 25	< 25	< 25	< 25 R	< 25	< 25	NT	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0						
Ethylbenzene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 5.0	< 25	< 25	< 25	< 25	< 25	< 25 R	< 25	< 25	< 130	< 25	< 25 R	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25	< 25	< 25						
Hexanone, 2-			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0						
Isopropyl benzene			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0						
Methyl tert-butyl ether			< 1.0	< 1.0	< 1.0	4.5 J+	2.7	< 1.0	NT	17.3	24.2	1.7 C+	< 1.0	< 1.0	0.65 J J+	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0						
Methylene chloride			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	4.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	10.0 J+	1	0.93 J J+	NT	7.2	1.1	0.72 J	3.9	2.4	0.63 J						
Naphthalene			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0						
Propylbenzene, n-			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0						
Tertiary-amyl methyl ether			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 5.0	< 5.0	< 5.0	<								

Table 5-4
Chemical Testing Results - Groundwater
50 Tufts Street
Somerville, Massachusetts

Sample Location:			MW105											MW106						MW107						MW108			
Sample Name: Well Screen Interval (ft bgs): Sample Date: Collected By:			MW-105 19 to 29 5/24/06 GEI	MW105 19 to 29 10/5/06 GEI	MW105 19 to 29 1/17/07 GEI	MW105 19 to 29 4/16/07 GEI	MW105 19 to 29 7/19/07 GEI	MW105 19 to 29 10/10/07 GEI	MW105 19 to 29 1/9/08 GEI	MW105 19 to 29 4/18/08 GEI	MW105 19 to 29 7/14/08 GEI	MW105 19 to 29 10/22/08 GEI	MW105 19 to 29 1/12/09 GEI	MW106 9 to 19 1/18/07 GEI	MW106 9 to 19 4/13/07 GEI	MW106 9 to 19 7/19/07 GEI	MW106 9 to 19 10/10/07 GEI	MW106 9 to 19 1/10/08 GEI	MW106 9 to 19 4/17/08 GEI	MW107 2 to 12 1/18/07 GEI	MW107 2 to 12 4/13/07 GEI	MW107 2 to 12 7/18/07 GEI	MW107 2 to 12 10/10/07 GEI	MW107 2 to 12 1/10/08 GEI	MW107 2 to 12 4/17/08 GEI	MW108 2 to 12 1/18/07 GEI	MW108 2 to 12 4/16/07 GEI	MW108 2 to 12 7/18/07 GEI	
Analyte	Method	Units																											
Volatile Organic Compounds (VOCs)																													
Acetone	8260	µg/l	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	69.9	< 5.0	9.2	< 5.0	< 5.0	NT	
Benzene			< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NT	
Bromobenzene			< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	
Bromodichloromethane			< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	
Bromoform			< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	
Butanone,2- (MEK)			< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	7.7	< 5.0	1.1 J	< 5.0	< 5.0	NT	
Butylbenzene, n-			< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	
Carbon disulfide			< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	
Carbon tetrachloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Chlorobenzene			< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Chloroform			< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	1.2	NT	0.56 J	0.39 J	1.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT
Chloromethane			< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	
Dichlorobenzene,1,3-			< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.59 J	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT
Dichlorodifluoromethane			< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	
Dichloroethane,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Dichloroethane,1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Dichloroethylene, cis-1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Dichloroethylene,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.4	6.3	3.4	3.9	4.1	1.5	3.2	3.7	< 1.0	< 1.0	< 1.0	1.3 G	2.3	< 1.0	< 1.0	< 1.0
Dichloropropane,1,2-			< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	
Dioxane,1,4-			< 25	< 25 R	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25	NT	
Ethylbenzene			< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	
Hexanone,2-			< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	
Isopropyl benzene			< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	
Methyl tert-butyl ether			< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	122	121	NT	252	78	4.9	< 1.0	< 1.0	NT	< 1.0	0.21 J	< 1.0	< 1.0	< 1.0	NT	
Methylene chloride			< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	
Naphthalene			< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	
Propylbenzene, n-			< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	
Tertiary-amyl methyl ether			< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	&												

Table 5-4
Chemical Testing Results - Groundwater
50 Tufts Street
Somerville, Massachusetts

Sample Location:			MW108 (continued)			MW109			MW110			MW111						MW112A				MW112A					
Sample Name:			MW108	MW108	MW108	MW109	MW109	MW109	MW110	MW110	MW110	MW111	MW111	MW111	MW111	MW111	MW111	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	
Well Screen Interval (ft bgs):			2 to 12	2 to 12	2 to 12	3 to 13	3 to 13	3 to 13	3 to 13	3 to 13	3 to 13	4 to 14	4 to 14	4 to 14	4 to 14	4 to 14	4 to 14	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19		
Sample Date:			10/10/07	1/10/08	4/17/08	1/18/07	4/16/07	4/17/08	1/18/07	4/17/07	5/23/07	1/18/07	4/16/07	7/18/07	10/10/07	1/10/08	4/17/08	3/23/07	4/16/07	7/18/07	10/10/07	1/10/08	4/17/08	7/14/08	7/14/08		
Collected By:			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI		
Analyte	Method	Units																									
Volatile Organic Compounds (VOCs)																											
Acetone	8260	µg/l	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Benzene			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 50	< 13	NT	< 25	< 0.50	< 1.0	< 0.50	< 0.50	NT	< 0.50	0.34 J	< 0.50	< 0.50	< 0.50		
Bromobenzene			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Bromodichloromethane			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Bromoform			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Butanone, 2- (MEK)			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Butylbenzene, n-			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Carbon disulfide			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Carbon tetrachloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	< 1.0	< 50	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Chlorobenzene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 20	< 50	< 2.0	< 100	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
Chloroform			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	1.2	< 2.0	0.35 J	< 1.0	NT	< 1.0	0.32 J	< 1.0	< 1.0	< 1.0		
Chloromethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 10	< 25	NT	< 50	1.2	< 2.0	0.35 J	< 1.0	NT	< 1.0	0.32 J	< 1.0	< 1.0	< 1.0		
Dichlorobenzene, 1,3-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 20	< 50	NT	< 100	< 2.0	< 4.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
Dichlorodifluoromethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Dichloroethane, 1,1-			< 1.0	< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 100	< 2.0	< 4.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
Dichloroethane, 1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	30.9	15.7 J	16.8	19.1 J	5.6	4.3 C+	27.6	24	6.4	35.6	114	40.9 C+	31.5	31.2		
Dichloroethylene, cis-1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	0.43 J	< 50	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Dichloroethylene, 1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	22.6	17.2 J	56.3	63.9	10.6	4.4 C+	< 1.0	0.54 J	0.98 J	4.2	18.7	55.3 C+	81.5	80.9		
Dichloropropane, 1,2-			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	17.6	< 25	10.5	< 50	4.1	3.7 C+	19.7	10.8	6.7	19.7	82.4	36.6 C+	24.5	39.1		
Dioxane, 1,4-			< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	NT	< 250	< 630	NT	< 1300	< 25	< 50	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25		
Ethylbenzene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Hexanone, 2-			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Isopropyl benzene			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Methyl tert-butyl ether			< 1.0	< 1.0	< 1.0	3.5	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	0.45 J	< 2.0	10.8	13.8	NT	20.3	87	20.5 C+	14.9	13.5		
Methylene chloride			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 20	31.4 J	NT	< 100	< 2.0	< 4.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		
Naphthalene			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Propylbenzene, n-			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Tertiary-amyl methyl ether			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Tetrachloroethane, 1,1,1,2-			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		
Tetrachloroethylene (PCE)			0.60 J	< 1.0	< 1.0	178 F-	28.5	17.4	0.89 J F-	0.93 J	NT	13700 F-	7370	6340	8350	3100	1160 C+	261	198	144	159	359	202 C+	165	164		
Tetrahydrofuran			< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NT	< 100	< 250	NT	< 500	< 10	< 20	< 10	< 10	NT	< 10	< 10	< 10	< 10	<		

Table 5-4
Chemical Testing Results - Groundwater
50 Tufts Street
Somerville, Massachusetts

Sample Location:			Sample Name:																									
Well Screen Interval (ft bgs):			Sample Date:																									
Collected By:			MW116																									
			MW116	MW116	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW901 (FD)	MW116	MW116	MW116	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117D	MW117S	MW117S	MW117S	MW117S	MW117S	MW117S	
			5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	
			3/23/07	4/16/07	7/18/07	7/18/07	10/12/07	10/12/07	1/11/08	1/11/08	4/15/08	4/15/08	7/16/08	10/21/08	1/14/09	7/19/07	10/11/07	1/15/08	4/16/08	7/16/08	10/21/08	1/13/09	7/18/07	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20
			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	Method	Units																										
Volatile Organic Compounds (VOCs)																												
Acetone	8260	µg/l	< 5.0	< 5.0	NT	NT	< 10 J+	< 10 J+	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 10	< 5.0	< 10	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	
Benzene			0.24 J	< 0.50	NT	NT	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50	< 1.0	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
Bromobenzene			< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Bromodichloromethane			< 1.0	< 1.0	NT	NT	1.1 J	0.99 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Bromoform			< 1.0	< 1.0	NT	NT	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Bromomethane			< 2.0	< 2.0	NT	NT	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Butanone,2- (MEK)			< 5.0	< 5.0	NT	NT	< 10 J+	< 10 J+	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 10	< 5.0	< 10	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Butylbenzene, n-			< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Carbon disulfide			< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Carbon tetrachloride			< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Chlorobenzene			< 1.0	< 1.0	NT	NT	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Chloroethane			< 2.0	< 2.0	2.4	2.3	2.4 J	2.4 J	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Chloroform			< 1.0	< 1.0	NT	NT	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Chloromethane			< 2.0	< 2.0	NT	NT	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Dichlorobenzene,1,3-			< 1.0	< 1.0	NT	NT	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	NT	< 1.0	< 1.0	< 2.0 J+	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	
Dichlorodifluoromethane			< 2.0	< 2.0	NT	NT	< 4.0 J+	< 4.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	
Dichloroethane,1,1-			135	4.4	97.3	96.9	80.1	79.3	18.9	15.6	66.8	64.5	114	109	72.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Dichloroethane,1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	< 2.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Dichloroethylene, cis-1,2-			103	21.7	415	431	346	341	49.5	42.9	105	102	286	319	146	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Dichloroethylene,1,1-			107	2.7	33.8	34	24.8	22.4	14.7	11.8	46.3	45.7	78.4	79.8	56.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Dichloropropane,1,2-			< 2.0	< 2.0	NT	NT	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Dioxane,1,4-			< 25	< 25	NT	NT	< 50	< 50	< 25	< 25	< 25	< 25	< 50	< 25	< 50	NT	< 25	< 25	< 25	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25 J+	
Ethylbenzene			< 1.0	< 1.0	NT	NT	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Hexanone,2-			< 5.0	< 5.0	NT	NT	< 10 J+	< 10 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Isopropyl benzene			< 5.0	< 5.0	NT	NT	< 10 J+	< 10 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Methyl tert-butyl ether			12.3	0.40 J	NT	NT	12.5	12.7	2.1 J+	1.3 J+	7.1	6.9	18.2	18.0	9.0	NT	1.6	2.3	1.5	< 1.0	1.5	0.96 J	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride			< 2.0	< 2.0	NT	NT	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Naphthalene			< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	NT	< 5.0	< 5.0	< 10	< 5.0	< 10	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Propylbenzene, n-			< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Tertiary-amyl methyl ether			< 2.0	< 2.0	NT	NT	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Tetrachloroethane,1,1,1,2-			< 5.0	< 5.0	NT	NT	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Tetrachloroethylene (PCE)			1180	32.2	167																							

Table 5-4
Chemical Testing Results - Groundwater
50 Tufts Street
Somerville, Massachusetts

[illegible]

General Notes:

1. Analyses detected in at least one sample are reported here. For a complete list of analyses refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "<" = The analyte was not detected at a concentration above the specified reporting limit.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.

Qualifying Notes:

E+	The result has a high bias due to surrogate recovery above upper control limits.
E	The value exceeds the calibration range.
F+	The result has a high bias due to matrix spike recovery above upper control limits.
F-	The result has a low bias due to matrix spike recovery below lower control limits.
G	The result is estimated due to duplicate precision outside control limits.
J	The reported result is below the laboratory reporting limit and is estimated.
J+	The reported result is estimated.
R	The result is rejected due to gross exceedence of minimum response factor criteria.

Table 5-4
Chemical Testing Results - Groundwater
50 Tufts Street
Somerville, Massachusetts

[illegible]

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "<" = The analyte was not detected at a concentration above the specified reporting limit.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.

Qualifying Notes:

- E+ The result has a high bias due to surrogate recovery above upper control limits.
- E- The value exceeds the calibration range.
- F+ The result has a high bias due to matrix spike recovery above upper control limits.
- F- The result has a low bias due to matrix spike recovery below lower control limits.
- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated
- J+ The reported result is estimated.
- R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 5-4
Chemical Testing Results - Groundwater
50 Tufts Street
Somerville, Massachusetts

Sample Location:			MW122 (continued)			MW201				MW202						MW203		MW-3									
Well Screen Interval (ft bgs):			MW122	MW122	MW122	MW201	MW201	MW201	MW201	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW203	MW203	MW-3	MW-3	MW-3	MW-3	MW3	MW-3	MW-3	MW-3	
Sample Date:			4 to 16	4 to 16	4 to 16	11 to 21	11 to 21	11 to 21	11 to 21	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	6 to 18	6 to 18	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	
Collected By:			7/14/08	10/22/08	1/12/09	7/19/07	10/12/07	1/11/08	4/15/08	7/19/07	10/12/07	1/11/08	4/15/08	7/15/08	10/21/08	1/13/09	7/19/07	4/15/08	SHA	8/9/04	5/23/06	1/17/07	4/17/07	4/15/08	10/21/08	1/14/09	
Analyte	Method	Units	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	
Volatile Organic Compounds (VOCs)																											
Acetone	8260	µg/l	11.1	7.2	5.7	NT	< 5.0 J+	< 5.0	< 5.0	NT	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J+	NT	< 250	< 2500	< 2000	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	
Benzene			0.46 J	< 1.0	< 1.0	NT	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0 J+	NT	< 25	< 250	< 100	0.37 J	0.71	< 13	< 0.50	< 0.50	< 0.50	
Bromobenzene			< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 250	< 1200	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	
Bromodichloromethane			< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 50	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	
Bromoform			< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 50	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	
Bromomethane			< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	NT	< 50	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	
Butanone, 2- (MEK)			< 5.0	< 5.0	< 5.0	NT	< 5.0 J+	< 5.0	< 5.0	NT	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 100	< 500	< 200	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 2.0	
Butylbenzene, n-			< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 250	< 2500	< 1000	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	
Carbon disulfide			< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 250	< 250	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	
Carbon tetrachloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 250	< 2500	< 500	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	
Chlorobenzene			< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 50	< 250	< 100	< 1.0	0.52 J	< 25	< 1.0	< 1.0	< 1.0	
Chloroform			< 1.0	0.61 J	< 1.0	NT	0.47 J	0.40 J	0.24 J	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 500	< 200	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 2.0	
Chloromethane			< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 50	< 1200	< 200	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 2.0	
Dichlorobenzene, 1,3-			< 1.0	< 1.0	0.60 J	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 50	< 1200	< 200	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 2.0	
Dichlorodifluoromethane			< 2.0	< 2.0	< 2.0	NT	< 2.0 J+	< 2.0	< 2.0	NT	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 50	< 1200	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	
Dichloroethane, 1,1-			10.1	15.0	16.0	< 1.0	0.66 J	< 1.0	0.23 J	0.50 J	< 1.0	< 1.0	0.46 J	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 2500	< 200	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 2.0	
Dichloroethane, 1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.34 J	22.2	13.0 J	< 380	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	
Dichloroethylene, cis-1,2-			34.0	62.5	91.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	
Dichloroethylene, 1,1-			1.4	4.4	3.4	4.7	4.9	5.2	3.0	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	102	78.9	< 250	< 100	< 1.0	1.9	< 25	< 1.0	0.56 J	< 1.0	
Dichloropropane, 1,2-			< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	76.4	36.6 J	< 250	< 100	6.9	5.6	< 25	< 1.0	< 1.0	< 1.0	
Dioxane, 1,4-			< 25	< 25	< 25	NT	< 25	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25	< 25	NT	< 100	< 880	< 100	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 2.0	
Ethylbenzene			< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1300	NT	NT	< 25	< 25	< 630	< 25	< 25	< 25	
Hexanone, 2-			< 5.0	< 5.0	< 5.0	NT	< 5.0 J+	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	
Isopropyl benzene			< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 250	< 2500	< 1000	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	
Methyl tert-butyl ether			1.9	5.6	2.5	NT	75.8	240	0.26 J	NT	< 1.0	< 1.0	1.2	< 1.0	< 1.0	0.92 J	NT	< 50	< 500	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	
Methylene chloride			< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 100	< 2500	< 1000	< 2.0	< 2.0	< 71.5	< 2.0	< 2.0	< 2.0	
Naphthalene			2.6 J	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	NT	< 100	< 2500	< 1000	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 2.0	
Propylbenzene, n-			< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 250	< 1200	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 5.0	
Tertiary-amyl methyl ether			< 2.0	< 2.0	< 2.0	NT	4.6	17.7																			

Table 5-4
Chemical Testing Results - Groundwater
50 Tufts Street
Somerville, Massachusetts

Sample Location: Sample Name: Well Screen Interval (ft bgs): Sample Date: Collected By:			MW-CS1 MWCS1 Unknown 5/23/07 GEI	SH-1 SH-1 9 to 14 8/9/04 Geolnsight	SH-3 SH-3 8 to 13 8/9/04 Geolnsight	SH-4 SH-4 11 to 16 5/25/06 GEI	SH-MW1 SH-MW1 10 to 30 7/8/02 SHA	SH-MW-1 SH-MW-1 10 to 30 5/23/06 GEI	SH-MW1 SH-MW1 10 to 30 10/4/06 GEI	SH-MW1 SH-MW1 10 to 30 1/16/07 GEI	SH-MW1 SH-MW1 10 to 30 4/12/07 GEI	SH-MW2 SH-MW2 10 to 25 7/8/02 SHA	SH-MW2 SH-MW2 10 to 25 8/16/04 Geolnsight	SH-MW-2 SH-MW-2 10 to 25 5/23/06 GEI	SH-MW-2 SH-MW-2 10 to 25 10/4/06 GEI	SH-MW2 SH-MW2 10 to 25 1/16/07 GEI	SH-MW2 SH-MW2 10 to 25 4/16/07 GEI	SH-MW2 SH-MW2 10 to 25 7/19/07 GEI	SH-MW3 SH-MW3 10 to 24 7/8/02 SHA	SH-MW-3 SH-MW-3 10 to 24 5/23/06 GEI	SH-MW-3 SH-MW-3 10 to 24 10/4/06 GEI	SH-MW3 SH-MW3 10 to 24 1/17/07 GEI	SHMW3 SHMW3 10 to 24 4/12/07 GEI	SHMW3 SHMW3 10 to 24 4/15/08 GEI	COBBLE_IR-1 COBBLE_IR-1 Unknown 6/25/07 GEI	
Analyte	Method	Units																								
Volatile Organic Compounds (VOCs)																										
Acetone	8260	µg/l	< 5.0	< 4000	< 2000	30	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 2000	< 5.0	< 5.0	< 5.0	< 10	NT	< 2500	< 5.0	< 5.0	< 500	< 5.0	< 500		
Benzene			< 0.50	< 200	< 100	< 0.50	< 250	< 0.50	0.61	< 5.0	< 0.33 J	< 25	< 100	< 0.50	< 0.50	< 0.50	< 1.0	NT	< 250	< 0.50	< 0.50	< 50	< 0.50	< 50	5.8	
Bromobenzene			< 5.0	< 200	< 100	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT	< 1200	< 5.0	< 5.0	< 500	< 0.50	< 500	< 0.50	
Bromodichloromethane			< 1.0	< 200	< 100	< 1.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 250	< 1.0	< 1.0	< 100	< 1.0	< 100	< 5.0	
Bromoform			< 1.0	< 200	< 100	< 1.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 250	< 1.0	< 1.0	< 100	< 1.0	< 100	0.32 J	
Bromomethane			< 2.0	< 400	< 200	< 2.0	< 500	< 2.0	< 2.0	< 2.0	< 2.0	< 50	< 200	< 2.0	< 2.0	< 2.0	< 4.0	NT	< 500	< 2.0	< 2.0	< 200	< 2.0	< 200	< 1.0	
Butanone, 2- (MEK)			< 5.0	< 2000	< 1000	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 1000	< 5.0	< 5.0	< 5.0	< 10	NT	< 2500	< 5.0	< 5.0	< 500	< 5.0	< 500	< 5.0	
Butylbenzene, n-			< 5.0	< 200	< 100	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 100	< 5.0	< 5.0	< 5.0	< 10	NT	< 250	< 5.0	< 5.0	< 500	< 5.0	< 500	< 5.0	
Carbon disulfide			0.54 J	< 1000	< 500	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 100	< 5.0	< 5.0	< 5.0	< 10	NT	< 2500	< 5.0	< 5.0	< 500	< 5.0	< 500	< 5.0	
Carbon tetrachloride			< 1.0	< 200	< 100	< 1.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 10	NT	< 250	< 5.0	< 5.0	< 500	< 5.0	< 500	< 5.0	
Chlorobenzene			< 1.0	< 200	< 100	< 1.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2500	< 5.0	< 5.0	< 500	< 5.0	< 500	< 5.0	
Chloroethane			< 2.0	< 400	< 200	< 2.0	< 500	< 2.0	0.52 J	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0	
Chloroform			< 1.0	< 200	< 100	< 1.0	< 500	< 2.0	< 2.0	< 2.0	< 2.0	< 50	< 200	< 2.0	< 2.0	< 2.0	< 4.0	NT	< 250	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0	
Chloromethane			< 2.0	< 400	< 200	< 2.0	< 500	< 2.0	13.3	< 380	2.1	< 38	< 100	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 500	< 2.0	< 2.0	< 200	< 2.0	< 200	< 2.0	
Dichlorobenzene, 1,3-			< 1.0	< 200	< 100	< 1.0	< 1200	< 2.0	< 2.0	< 2.0	< 2.0	< 120	< 200	< 2.0	< 2.0	< 2.0	< 4.0	NT	< 380	0.88 J	0.81 J	< 100	< 1.0	< 100	< 1.0	
Dichlorodifluoromethane			< 2.0	< 400	< 200	< 2.0	< 2500	< 2.0	< 2.0	< 2.0	< 2.0	< 120	< 200	< 2.0	< 2.0	< 2.0	< 4.0	NT	< 1200	< 2.0	< 2.0	< 200	< 2.0	< 200	< 2.0	
Dichloroethane, 1,1-			< 1.0	< 200	< 100	< 1.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 120	< 200	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 1200	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0	
Dichloroethane, 1,2-			< 1.0	< 200	< 100	< 1.0	< 380	< 1.0	11.4	12	8.5	< 38	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 380	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0	
Dichloroethylene, cis-1,2-			< 1.0	< 200	< 100	< 1.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 380	21.6	36.5	< 100	< 24.5	< 100	< 1.0	
Dichloroethylene, 1,1-			< 1.0	< 200	< 100	< 1.0	< 250	< 1.0	16.6	2.1	7.3	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 380	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0	
Dichloropropane, 1,2-			< 2.0	< 200	< 100	< 2.0	< 500	< 2.0	556 E	11.7	19.3	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 250	< 1.0	< 1.0	< 100	< 39.8	< 100	< 1.0	
Dioxane, 1,4-			< 25	NT	NT	57700	NT	< 25	< 25 R	< 25	< 25	< 88	< 100	< 2.0	< 2.0	< 2.0	< 4.0	NT	< 880	< 2.0	< 2.0	< 200	< 2.0	< 200	< 2.0	
Ethylbenzene			< 1.0	< 200	< 100	< 1.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 100	< 2.0	< 2.0	< 2.0	< 4.0	NT	< 880	< 2.0	< 2.0	< 200	< 2.0	< 200	< 2.0	
Hexanone, 2-			< 5.0	< 2000	< 1000	< 5.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 250	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0	
Isopropyl benzene			< 5.0	< 200	< 100	< 5.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 250	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0	
Methyl tert-butyl ether			66.4	< 200	< 100	< 1.0	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 10	NT	< 250	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0	
Methylene chloride			< 2.0	< 2000	< 1000	12.2	< 2500	< 2.0	0.71 J J+	< 1.0	0.74 J J+	< 50	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 500	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0	
Naphthalene			< 5.0	< 200	< 100	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2500	< 2.0	< 2.0	< 200	< 2.0	< 200	< 2.0	
Propylbenzene, n-			< 5.0	< 200	< 100	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT	< 1200	< 5.0	< 5.0	< 392 J	< 5.0	< 500	< 5.0	
Tertiary-amyl methyl ether			< 2.0	NT	NT	1.9 J	NT	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 4.0	NT	< 250	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0	
Tetrachloroethane, 1,1,1,2-			< 5.0	< 200	< 100	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 100	< 5.0	< 5.0	< 5.0	< 10	NT	< 250	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0	
Tetrachloroethylene (PCE)			< 1.0	< 200	< 100	< 1.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 100	< 5.0	< 5.0	< 5.0	< 10	NT	< 250	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0	
Toluene			< 1.0	< 200	< 100	< 1.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 100	< 5.0	< 5.0	< 5.0	< 10	NT	< 250	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0	
Trans-1,2-Dichloroethylene			< 1.0	< 200	< 100	< 1.0	< 380	< 1.0	< 1.0	< 1.0	< 1.0	< 38	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 380	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0	
Trichloroethane, 1,1,1- (TCA)			< 1.0	< 200	< 100	< 1.0	< 380	< 1.0	< 1.0	< 1.0	< 1.0	< 38	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 380	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0	
Trichloroethane, 1,1,2-			< 1.0	< 200	< 100	< 1.0	< 380	< 1.0	< 1.0	< 1.0	< 1.0	< 38	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 380	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0	
Trichloroethylene (TCE)			< 1.0	< 200	< 100	< 1.0	< 380	< 1.0	< 1.0	< 1.0	< 1.0	< 38	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 380	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0	
Trimethylbenzene, 1,2,4-			< 5.0	< 200	< 100	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT	< 1200	< 5.0	< 5.0	< 306 J	< 5.0	< 500	< 5.0	
Trimethylbenzene, 1,3,5-			< 5.0	< 200	< 100	< 5.0	< 1200	< 5.0	< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT	< 1200	< 5.0	< 5.0	< 306 J	< 5.0	< 500	< 5.0	
Vinyl chloride			< 1.0	< 200	< 100	< 1.0	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 500	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0	
Xylene, m,p-			< 1.0	< 400	< 200	< 1.0	< 250	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 200	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 250	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0	
Xylene, o-			< 1.0	< 200	< 100	< 1.0	< 250	< 1.0	< 1																	

Table 5-5
Site-Specific Chlorinated VOCs Analyte List
50 Tufts Street
Somerville, Massachusetts

- Carbon tetrachloride
- Chloroethane
- cis-1,2-Dichloroethylene
- Dichloroethane,1,1-
- Dichloroethane,1,2-
- Dichloroethylene,1,1-
- Tetrachloroethane,1,1,2,2-
- Tetrachloroethylene (PCE)
- trans-1,2-Dichloroethylene
- Trichloroethane,1,1,1- (TCA)
- Trichloroethane,1,1,2-
- Trichloroethylene (TCE)
- Vinyl chloride

Table 5-6

Summary of Sub-Surface Utility Measurements, October 1, 2008 to April 10, 2009
50 Tufts Street
Somerville, Massachusetts

Sampling Event and Date	Measured Locations	Sampled Locations	QA/QC Samples
Dry Weather Sampling, MBTA system 10/9/2008 10/10/2008	U1, U2, U9-F, U9-N, U11-B	none	NA
	U1, U2, U4, U5, U6-19, U6-33, U6-34, U7, U9-F, U9-N, U10, U11-R, U13, U14, U15	U1, U2, U4, U5, U6-19, U6-33, U6-34, U7, U9-F, U9-N, U10, U11-R, U13, U14, U15	None
Wet Weather Sampling, MBTA system 11/14/2008	U1, U2, U4, U5, U6-19, U6-33, U6-34, U7, U9-F, U9-N, U10, U11-R, U11-B, U13, U14, U15	U1, U2, U4, U5, U6-19, U6-33, U6-34, U7, U9-F, U9-N, U10, U11-R, U11-B, U13, U14, U15	Field duplicate of U10 (U20)

General Notes:

1. QA/QC = Quality Assurance/Quality Control
2. NA = not applicable, no samples collected.
3. None = No QA/QC samples were collected.
4. MBTA = Massachusetts Bay Transportation Authority.
5. VOC = volatile organic compound.
6. All groundwater samples submitted for VOCs testing for a site-specific list of compounds.

Table 5-7
Chemical Testing Results -
Storm Drain and Sanitary Sewer Water
50 Tufts Street
Somerville, Massachusetts

Sample Location:			Sanitary Sewers on City of Somerville property			Catch Basins on City of Somerville property																					
Utility ID:			SMH 102	SMH 14	SMH 44	CAP CB	CB 1	CB 2	U6-19 (CB19)			CB 23	CB 25	CB 26/51	CB 28/54	CB 29	U6-33 (CB33)			U6-34 (CB34)			CB 36	CB 100	CB 101	CB 104	
Sample Name:			SMH 102	SMH 14	SMH 44	CAP CB	CB 1	CB 2	CB 19	U6-19-DRY	U619-WET	CB 23	CB 25	CB 26/51	CB 28/54	CB 29	CB 33	U6-33-DRY	U633-WET	CB 34	U6-34-DRY	U634-WET	CB 36	CB 100	CB 101	CB 104	
Sample Date:			3/18/08	4/3/08	3/21/08	3/21/08	3/18/08	3/18/08	3/18/08	10/10/08	11/14/08	3/21/08	3/21/08	3/21/08	3/21/08	3/18/08	3/18/08	3/18/08	10/10/08	11/14/08	4/3/08	10/10/08	11/14/08	3/18/08	4/3/08	4/2/08	4/3/08
Analyte	Method	Units																									
Volatile Organic Compounds (VOCs)			8260		µg/l																						
Dichloroethane, 1, 1-																											
Dichloroethane, 1, 2-																											
Dichloroethylene, cis-1, 2-																											
Dichloroethylene, trans-1, 2-																											
Dichloroethylene, 1, 1-																											
Tetrachloroethylene (PCE)																											
Trichloroethane, 1, 1, 1- (TCA)																											
Trichloroethylene (TCE)																											
Vinyl chloride																											

- General Notes:**
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
 2. µg/l = micrograms per liter.
 3. "<" = The analyte was not detected at a concentration above the specified reporting limit.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

Table 5-7
Chemical Testing Results -
Storm Drain and Sanitary Sewer Water
50 Tufts Street
Somerville, Massachusetts

Sample Location:			Storm Drain Manholes on MBTA property in Somerville												Storm Drain Manhole in Charlestown		Combined Sewer Manholes in Charlestown				Pump Station		OWS		
Utility ID:			U1		U2		U5		U9				U11		U13		U14		U15		U4		U10		
Sample Name: Sample Date:			U1-DRY 10/10/08	U1-WET 11/14/08	U2-DRY 10/10/08	U2-WET 11/14/08	U5-DRY 10/10/08	U5-WET 11/14/08	U9-F-DRY 10/10/08	U9-F-WET 11/14/08	U9-N-DRY 10/10/08	U9-N-WET 11/14/08	U11-R-DRY 10/10/08	U11-R-WET 11/14/08	U13-DRY 10/10/08	U13-WET 11/14/08	U14-DRY 10/10/08	U14-WET 11/14/08	U15-DRY 10/10/08	U15-WET 11/14/08	U4-DRY 10/10/08	U4-WET 11/14/08	U10-DRY 10/10/08	U10-WET 11/14/08	U20-WET (Dup.) 11/14/08
Analyte	Method	Units																							
Volatile Organic Compounds (VOCs)			8260	µg/l																					
Dichloroethane,1,1-					< 1.0	< 1.0	1.1	2.4	0.45 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	11.8	10.7	0.64 J	< 1.0	< 1.0	
Dichloroethane,1,2-					< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0		
Dichloroethylene, cis-1,2-					< 1.0	< 1.0	2.1	27.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	248	262	5.5	6.5	6.4	
Dichloroethylene, trans-1,2-					< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.3	< 5.0	< 1.0	< 1.0	< 1.0	
Dichloroethylene,1,1-					< 1.0	< 1.0	6.7	5.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	8.5	< 5.0	< 1.0	< 1.0	< 1.0	
Tetrachloroethylene (PCE)					4.5	< 1.0	4.4	1.8	503	267	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.5	3.4	< 1.0	< 1.0	1790	1170	27.4	25.2	24.6
Trichloroethane,1,1,1- (TCA)					1.5	< 1.0	1.3	< 1.0	179	206	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.52 J	< 1.0	< 1.0	< 1.0	121	103	5.4	6.3	6.2
Trichloroethylene (TCE)					1.1	< 1.0	1.1	< 1.0	104	125	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.52 J	< 1.0	< 1.0	< 1.0	165	132	4.9	5.7	5.5
Vinyl chloride					< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	9.1	7.5	< 1.0	< 1.0	< 1.0	

General Notes:

1. Analytes detected in at least one sample are reported here. f a complete list of analytes see the attached laboratory data sheet.

2. µg/l = micrograms per liter.

3. "<" = The analyte was not detected at a concentration above specified reporting limit.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-1

Summary of SSDS Monitoring Events October 1, 2008 through April 10, 2009, Capuano Center

50 Tufts Street

Somerville, Massachusetts

Monitoring Date	Monitoring Event per RMR Report Period	Type of Monitoring Event	SSDS Field Parameters Measured	Analytical Samples Collected (Yes/No)?
10/14/2008	1	SSDS Monthly Monitoring	-Pressure readings and VOC concentrations at each manifold pipe, the combined influent, and effluent pipes. -Pressure readings at all the exterior extraction pipes. -System flow rate.	No
11/24/2008	2	SSDS Semi-Annual Air Sampling and Monthly Monitoring	-Pre-sampling HVAC inspection. -Pressure readings at each manifold pipe, the combined influent pipe, effluent pipe, and all the exterior extraction pipes. -System flow rate. -Pressure readings and VOC concentrations at all interior sub-slab points.	Yes
1/30/2009	3	SSDS Monthly Monitoring	-Pressure readings and VOC concentrations at each manifold pipe, the combined influent, and effluent pipes. -Pressure readings and VOC concentrations at all the exterior extraction pipes. -System flow rate. -Pressure readings and VOC concentrations at all interior sub-slab points.	No
2/26/2009	4	SSDS Monthly Monitoring	-Pressure readings and VOC concentrations at each manifold pipe, the combined influent, and effluent pipes. -Pressure readings and VOC concentrations at all the exterior extraction pipes. -System flow rate. -Pressure readings and VOC concentrations at all interior sub-slab points.	No
3/2/2009	5	SSDS Semi-Annual Air Sampling	-Pre-sampling HVAC inspection.	Yes
3/26/2009	6	SSDS Monthly Monitoring	-Pressure readings and VOC concentrations at each manifold pipe, the combined influent, and effluent pipes. -Pressure readings and VOC concentrations at all the exterior extraction pipes. -System flow rate. -Pressure readings and VOC concentrations at all interior sub-slab points.	No

General Notes:

1. RMR = Remedial Monitoring Report.
2. SSDS = Sub-Slab Depressurization System.
3. VOC = Volatile Organic Compound.
4. HVAC = Heating, Ventilation, and Air Conditioning system.
5. VOC measurements collected with a ppb-RAE calibrated to 10 parts per million (ppm) isobutylene, or a Phocheck 5000+ calibrated to 100 ppm.
6. Pressure readings collected using a Dwyer 475-000-FM manamoter.

Table 7-2

PID Monitoring Data

Sub-Slab Depressurization System, Capuano Center

50 Tufts Street

Somerville, Massachusetts

Date	PID Reading (ppb as Isobutylene)										Blower Enclosure Monitoring Points					Effluent
	Interior Sub-Slab Monitoring Points															
	Room 122A	Room 126A	Room 133A	Room 137A	Room 142A	Room 146A	Manifold 12	Manifold 13	Manifold 14	Combined Influent						
1/31/07	440	641	469	800	412	3,400	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
2/1/07	492,000	305,000	975,000	1,244,000	210	331,000	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
2/2/07	1,700	6,200	4,000	2,400	11,100	47,000	0	0	0	0	0	1,100	2,000	2,000	1,400	1,400
2/3/07	1,328	5,468	2,081	1,328	1,743	2,213	183	183	652	183	652	317	1,090	1,090	785	785
2/4/07	746	4,750	297	652	1,255	2,565	241	241	436	241	436	328	528	528	456	456
2/5/07	272	1,951	1,164	1,595	1,955	1,538	213	213	474	213	474	412	483	483	472	472
2/6/07	613	3,563	1,299	1,967	2,412	12,100	285	285	4,479	285	4,479	787	633	633	669	669
2/7/07	NM	NM	NM	NM	NM	NM	1,715	1,715	993	1,715	993	1,385	738	738	979	979
2/8/07	974	3,392	933	1,399	786	4,395	118	118	147	118	147	153	192	192	180	180
2/20/2007	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
3/1/2007	NM	NM	NM	NM	NM	NM	800	800	1,000	800	1,000	1,000	800	800	1,000	1,000
3/8/2007	417	580	441	270	151	1,176	958	958	425	958	425	602	534	534	428	428
3/14/2007	NM	NM	NM	NM	NM	NM	22	22	273	22	273	111	163	163	86	86
3/22/2007	NM	NM	NM	NM	NM	NM	144	144	0	144	0	0	0	0	1,058	1,058
3/29/2007	NM	NM	NM	NM	NM	NM	85	85	0	85	0	0	0	0	600	600
4/6/2007	NM	NM	NM	NM	NM	NM	21	21	115	21	115	70	43	43	41	41
4/20/2007	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4/27/2007	195	14,000	4,145	6,150	1,250	3,725	37	37	169	37	169	152	151	151	128	128
5/4/07	NM	NM	NM	NM	NM	NM	330	330	220	330	220	280	170	170	200	200
5/11/07	NM	NM	NM	NM	NM	NM	389	389	57	389	57	356	245	245	60	60
5/18/07	200	10,300	430	520	420	415	40	40	90	40	90	83	75	75	50	50
5/25/07	NM	NM	NM	NM	NM	NM	1,150	1,150	500	1,150	500	560	700	700	681	681
6/1/07	NM	NM	NM	NM	NM	NM	6,150	6,150	8,000	6,150	8,000	7,565	5,413	5,413	6,122	6,122
6/8/07	NM	NM	NM	NM	NM	NM	95	95	103	95	103	125	35	35	47	47
6/15/07	NM	NM	NM	NM	NM	NM	153	153	203	153	203	236	175	175	190	190
6/22/07	NM	NM	NM	NM	NM	NM	31	31	106	31	106	154	93	93	83	83
7/6/07	NM	NM	NM	NM	NM	NM	1,982	1,982	468	1,982	468	0	0	0	0	0
7/13/07	NM	NM	NM	NM	NM	NM	28	28	23	28	23	36	15	15	0	0
7/30/07	800	50	90	53	0	36	191	191	247	191	247	267	137	137	171	171
8/6/07	NM	NM	NM	NM	NM	NM	91	91	277	91	277	136	192	192	145	145
8/10/07	NM	NM	NM	NM	NM	NM	0	0	16	0	16	26	1	1	0	0
8/20/07	NM	NM	NM	NM	NM	NM	0	0	0	0	0	0	0	0	27	27
8/24/07	NM	NM	NM	NM	NM	NM	0	0	0	0	0	0	0	0	110	110
9/7/2007	NM	NM	NM	NM	NM	NM	261	261	300	261	300	340	300	300	260	260
9/10/2007	27	175	8	842	0	17	98	98	207	98	207	319	261	261	310	310

General Notes:

1. ppb = parts per billion.
2. PID = photoionization detector.
3. Measurements were collected with a PID.
4. NM = Not Measured.
5. VOC concentrations measured with either a ppbRAE calibrated to 10 ppm isobutylene with a response factor of 1.0 or a Phocheck+ 5000 calibrated to 100 ppm isobutylene.
6. All readings for the interior sub-slab monitoring points above 12,000 ppb were adjusted down on the VOC graphs in Appendix X.
7. All readings for the blower enclosure monitoring points above 2,500 ppb were adjusted down on the VOC graphs in Appendix X.

Table 7-3
Exterior Extraction Monitoring Point PID Data
Sub-Slab Depressurization System, Capuano Center
50 Tufts Street
Somerville, Massachusetts

Extraction Point	Room Date	PID Reading (ppb as Isobutylene)															Room 146		
		Room 122			Room 126			Room 134			Room 138			Room 142			146-1	146-2	146-3
		122-1	122-2	122-3	126-1	126-2	126-3	134-1	134-2	134-3	138-1	138-2	138-3	142-1	142-2	142-3			
1/31/2007		NM	57,200	NM	NM	91,900	NM	NM	20,800	NM	437,000	120,000	181,000	8,610	12,600	5,000	23,100	9,800	118,000
2/1/2007		NM	4,300	NM	NM	3,100	NM	NM	29,000	NM	NM	97,000	NM	NM	3,400	NM	NM	3,700	NM
2/2/2007		1,100	1,100	1,100	1,100	1,100	1,400	1,100	1,400	1,400	5,600	4,600	3,300	2,400	2,700	2,000	2,000	1,700	1,100
2/3/2007		62	118	124	192	218	109	148	538	373	1,428	2,522	1,758	874	425	583	432	181	296
2/4/2007		226	148	74	126	168	176	419	1,056	381	1,196	2,232	778	439	270	330	296	212	336
2/5/2007		NM	74	NM	NM	149	NM	NM	355	NM	1,517	1,164	921	NM	467	NM	NM	398	NM
2/6/2007		NM	368	NM	NM	512	NM	NM	375	NM	722	798	589	NM	618	NM	NM	355	NM
2/7/2007		NM	220	NM	NM	166	NM	NM	544	NM	1,073	695	622	NM	386	NM	NM	254	NM
2/8/2007		3,420	263	505	244	311	629	123	1,488	34	1,004	399	160	43	38	254	102	100	137
3/8/2007		99	470	95	302	86	0	0	124	37	746	125	61	4	65	167	1,028	60	146
4/20/2007		0	0	0	0	0	0	1,450	419	28	250	149	236	0	0	0	0	0	0
5/18/2007		0	8	0	0	0	0	0	520	0	407	317	168	12	29	243	0	0	0
7/30/2007		0	0	0	0	0	0	0	0	0	378	381	0	0	0	350	278	393	259
9/10/2007		28	44	72	25	25	8	11	195	154	157	177	25	74	111	536	20	42	2
10/8/2007		0	0	0	0	0	0	0	0	0	385	202	NM	195	170	720	9	85	53
10/14/2007		238	214	204	226	245	238	159	123	216	223	44	278	305	213	230	298	226	245
11/14/2007		0	0	0	0	0	0	0	563	0	11	45	0	11	5	175	0	0	0
12/14/2007		0	0	0	0	0	66	61	360	21	157	0	0	0	0	0	30	0	0
1/21/2008		0	0	0	0	0	0	0	2213	0	14	0	0	0	0	0	0	0	0
2/18/2008		0	0	0	0	0	0	0	1972	0	388	NM	0	0	0	0	0	0	0
3/14/2008		25	60	30	6	36	176	22	27	125	572	200	184	134	40	50	50	50	52
4/21/2008		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/2008		12	12	13	11	14	11	9	11	10	11	15	0	24	348	0	7	0	0
11/24/2008		41	61	51	51	0	30	51	61	0	0	20	51	0	0	82	124	166	145
1/30/2009		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/26/2009		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/26/2009		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

General Notes:

1. ppb = parts per billion.
2. PID = photoionization detector.
3. Measurements were collected with a PID.
4. NM = Not Measured.
5. VOC concentrations measured with either a ppbRAE calibrated to 10 ppm isobutylene with a response factor of 1.0 or a Phocheck+ 5000 calibrated to 100 ppm isobutylene.
6. All readings for Room 122 above 1,200 ppb were adjusted down on the VOC graphs in Appendix X.
7. All readings for Room 126 above 1,500 ppb were adjusted down on the VOC graphs in Appendix X.
8. All readings for Room 134 above 2,500 ppb were adjusted down on the VOC graphs in Appendix X.
9. All readings for Room 138 above 6,000 ppb were adjusted down on the VOC graphs in Appendix X.
10. All readings for Room 142 above 5,500 ppb were adjusted down on the VOC graphs in Appendix X.
11. All readings for Room 146 above 4,000 ppb were adjusted down on the VOC graphs in Appendix X.

Table 7-4
Influent VOC Mass Conversion Factors, 50 Tufts Street
50 Tufts Street
Somerville, Massachusetts

		Units:	Combined System Influent VOCs					Influent Flow Rate	Estimated Mass Removed				
Conversion Factor:			ppm	µg/m ³ ppm x 3863.2	kg/m ³ µg/m ³ / 1x10 ³	lbs/m ³ kg/m ³ x 2.2	lbs/m ³ lbs/m ³ / 35.3	cfm	lbs/min lbs/cf x cfm	lbs/day cfm x 1440	# of days	total lbs	cumulative lbs
Date	Day												
4/30/2007	1		70	270,422	2.70E-04	5.95E-04	1.69E-05	331	0.006	8.03	1	8.0	8
5/1/2007	2		251	969,656	9.70E-04	2.13E-03	6.04E-05	331	0.020	28.80	1	28.8	37
5/3/2007	4		229	884,667	8.85E-04	1.95E-03	5.51E-05	331	0.018	26.28	2	52.6	89
5/4/2007	5		169	741,729	7.42E-04	1.63E-03	4.62E-05	331	0.015	22.03	1	22.0	111
5/5/2007	6		201	652,876	6.53E-04	1.44E-03	4.07E-05	331	0.013	19.39	1	19.4	131
5/7/2007	8		205	776,498	7.76E-04	1.71E-03	4.84E-05	340	0.016	23.69	2	47.4	178
5/10/2007	11		153	591,065	5.91E-04	1.30E-03	3.68E-05	340	0.017	24.17	3	72.5	251
5/18/2007	19		26	489,464	4.89E-04	1.08E-03	3.05E-05	349	0.013	18.51	8	148.1	399
5/25/2007	26		33	658,285	6.58E-04	1.45E-03	4.10E-05	340	0.010	14.94	7	104.5	503
6/1/2007	33		35	536,981	5.37E-04	1.18E-03	3.35E-05	318	0.013	18.79	7	131.5	635
6/3/2007	35		40	380,909	3.81E-04	8.38E-04	2.37E-05	314	0.011	15.13	2	30.3	665
6/8/2007	40		44	356,571	3.57E-04	7.84E-04	2.22E-05	310	0.007	10.60	5	53.0	718
6/12/2007	51		92.3	388,249	3.88E-04	8.54E-04	2.42E-05	314	0.007	10.05	4	40.2	758
6/19/2007	58		65	100.5	3.88E-04	8.54E-04	2.42E-05	323	0.008	11.25	7	78.8	837
6/26/2007	65		72	27.6	1.07E-04	2.35E-04	6.65E-06	327	0.002	3.13	7	21.9	859
7/3/2007	72		79	31.2	5.33E-04	1.17E-03	3.32E-05	314	0.010	15.02	7	105.2	964
7/10/2007	79		86	82.2	1.21E-04	2.65E-04	7.51E-05	318	0.002	3.44	7	24.1	988
7/17/2007	86		93	127.5	3.18E-04	6.99E-04	1.98E-05	297	0.006	8.46	7	59.2	1047
7/24/2007	93		100	492,555	4.93E-04	1.08E-03	3.07E-05	340	0.010	15.03	7	105.2	1153
7/31/2007	100		112	89.7	3.47E-04	7.62E-04	2.16E-05	331	0.007	10.29	7	72.1	1225
8/7/2007	112		110	100.7	3.89E-04	8.56E-04	2.42E-05	349	0.008	12.18	7	85.3	1310
8/19/2007	113		114	440,402	4.40E-04	9.69E-04	2.74E-05	367	0.010	173.8	12	1484	1484
8/20/2007	119		104	459,718	4.60E-04	1.01E-03	2.87E-05	384	0.011	15.84	1	15.8	1500
8/21/2007	114		234	401,770	4.02E-04	8.84E-04	2.50E-05	378	0.009	13.61	1	13.6	1513
8/22/2007	115		208	903,982	9.04E-04	1.99E-03	5.63E-05	378	0.021	30.67	1	30.7	1544
8/23/2007	116		121	803,540	8.04E-04	1.77E-03	5.01E-05	378	0.019	27.26	1	27.3	1571
8/28/2007	128		135	158	6.10E-04	1.34E-03	3.80E-05	371	0.014	20.32	5	101.6	1673
9/4/2007	142		149	209	807,403	8.07E-04	1.78E-03	369	0.019	26.74	7	187.2	1860
9/11/2007	149		156	679,532	6.80E-04	1.49E-03	4.24E-05	368	0.016	22.44	7	157.1	2017
9/18/2007	170		177	178	6.88E-04	1.51E-03	4.29E-05	340	0.015	20.98	7	146.9	2164
9/25/2007	177		184	525,391	5.25E-04	1.16E-03	3.27E-05	380	0.012	17.92	7	125.4	2289
10/2/2007	184		194	467,444	4.67E-04	1.03E-03	2.91E-05	386	0.011	16.19	7	113.4	2403
10/16/2007	194		204	463,581	4.64E-04	1.02E-03	2.89E-05	354	0.010	14.73	14	206.2	2609
10/23/2007	204		211	363,138	3.63E-04	7.99E-04	2.26E-05	362	0.008	11.80	7	82.6	2692
10/30/2007	211		218	368,933	3.69E-04	8.12E-04	2.30E-05	372	0.009	12.32	7	86.2	2778
11/9/2007	218		222	416,064	4.16E-04	9.15E-04	2.59E-05	349	0.009	13.03	10	130.3	2908
11/13/2007	222		227	391,726	3.92E-04	8.62E-04	2.44E-05	349	0.009	12.27	4	49.1	2957
11/19/2007	227		234	354,253	3.54E-04	7.79E-04	2.21E-05	350	0.008	11.13	6	66.8	3024
11/26/2007	234		242	285,102	2.85E-04	6.27E-04	1.78E-05	351	0.006	8.98	7	62.9	3087
12/3/2007	242		256	375,887	3.76E-04	8.27E-04	2.34E-05	352	0.008	11.87	7	83.1	3170
12/7/2007	256		262	380,523	3.81E-04	8.37E-04	2.37E-05	349	0.008	11.92	4	47.7	3218
12/12/2007	262		274	300,941	3.01E-04	6.62E-04	1.88E-05	350	0.007	9.45	5	47.3	3265
12/17/2007	274		285	250,334	2.50E-04	5.50E-04	1.50E-05	362	0.006	8.13	15	122.0	3387
12/27/2007	285		290	214,406	2.14E-04	4.72E-04	1.34E-05	362	0.005	6.97	14	97.5	3484
1/10/2008	290		298	212,475	2.12E-04	4.67E-04	1.32E-05	350	0.005	6.67	6	40.0	3524
1/16/2008	298		304	143,710	1.44E-04	3.16E-04	8.96E-06	350	0.003	4.51	12	54.2	3579
1/28/2008	304		313	137,529	1.38E-04	3.03E-04	8.57E-06	358	0.003	4.42	11	48.6	3627
2/8/2008	313		319	133,279	1.33E-04	2.93E-04	8.31E-06	350	0.003	4.19	5	20.9	3648
2/13/2008	319		326	110,100	1.10E-04	2.42E-04	6.86E-06	358	0.002	3.54	8	28.3	3676
2/27/2008	326		331	133,279	1.33E-04	2.93E-04	8.31E-06	350	0.003	4.19	6	25.1	3702
3/7/2008	331		336	127,485	1.27E-04	2.80E-04	7.95E-06	350	0.003	4.00	9	36.0	3738
3/13/2008	336		343	88,080	8.81E-05	1.94E-04	5.49E-06	350	0.004	5.22	6	31.3	3769
4/19/2008	343		356	242,994	2.43E-04	5.35E-04	1.51E-05	371	0.002	2.93	37	108.5	3877
5/1/2008	356		368	176,933	1.77E-04	3.89E-04	1.10E-05	249	0.004	5.43	12	65.2	3943
5/19/2008	368		423	90,012	9.00E-05	1.98E-04	5.61E-06	311	0.003	4.94	18	88.9	4031
6/25/2008	423		425	207,452	2.07E-04	4.56E-04	1.29E-05	373	0.002	3.01	37	111.5	4143
6/27/2008	425		426	127,871	1.28E-04	2.81E-04	7.97E-06	456	0.006	8.49	2	17.0	4160
6/28/2008	426		439	422,631	4.23E-04	9.30E-04	2.63E-05	465	0.004	5.34	1	5.3	4165
7/1/2008	439		444	251,879	2.52E-04	5.54E-04	1.57E-05	448	0.012	16.98	13	220.9	4386
7/16/2008	444		445	344,981	3.45E-04	7.59E-04	2.15E-05	463	0.007	10.47	5	52.3	4438
7/17/2008	445		453	366,229	3.66E-04	8.06E-04	2.28E-05	429	0.009	13.28	1	13.3	4452
7/25/2008	453		460	129,416	1.29E-04	2.85E-04	7.97E-06	440	0.010	14.46	8	115.7	4567
8/1/2008	460		467	141,392	1.41E-04	3.11E-04	8.81E-06	384	0.003	4.46	7	31.2	4599
8/6/2008	467		478	174,229	1.74E-04	3.83E-04	1.09E-05	341	0.003	4.33	7	30.3	4629
8/19/2008	478		493	202,044	2.02E-04	4.44E-04	1.26E-05	368	0.004	5.75	11	63.3	4692
9/3/2008	493		499	129,803	1.30E-04	2.89E-04	8.09E-06	404	0.005	7.33	15	109.9	4802
9/9/2008	499		514	79,968	8.00E-05	1.76E-04	4.98E-06	385	0.003	4.48	6	26.9	4829
9/24/2008	514		519	119,758	1.20E-04	2.63E-04	7.46E-06	349	0.002	2.50	15	37.6	4867
9/29/2008	519		530	131,734	1.32E-04	2.90E-04	8.21E-06	415	0.003	4.46	5	22.3	4889
10/10/2008	530		534	179,251	1.79E-04	3.94E-04	1.12E-05	305	0.003	3.61	11	39.7	4929
10/14/2008	534		556	193,545	1.94E-04	4.26E-04	1.21E-05	297	0.003	4.78	4	19.1	4948
11/5/2008	556		557	110,873	1.11E-04	2.44E-04	6.81E-06	361	0.004	6.27	22	138.0	5086
11/6/2008	557		565	173,456	1.73E-04	3.82E-04	1.08E-05	380	0.003	3.78	1	3.8	5089
11/14/2008	565		576	174,615	1.75E-04	3.84E-04	1.09E-05	380	0.004	5.92	8	47.3	5137
11/17/2008	568		576	122,463	1.22E-04	2.69E-04	7.63E-06	359	0.004	5.63	3	16.9	5154
11/25/2008	576		586	91,171	9.12E-05	2.01E-04	5.68E-06	355	0.003	3.90	8	31.2	5185
12/1/2008	586		592	95,420	9.54E-05	2.10E-04	5.95E-06	351	0.002	2.87	10	28.7	5214
12/11/2008	592		599	62,197	6.22E-05	1.37E-04	3.88E-06	370	0.002	3.17	6	19.0	5233
12/18/2008	599		605	66,060	6.61E-05	1.45E-04	4.12E-06	367	0.002	2.16	7	15.1	5248
12/24/2008	605		611	64,129	6.41E-05	1.41E-04	4.00E-06	369	0.002	2.19	6	13.1	5261
12/30/2008	611		628	59,107	5.91E-05	1.30E-04	3.68E-06	379	0.000	0.37	6	2.2	5263
1/16/2009	628		656	62,197	6.22E-05	1.37E-04	3.88E-06	369	0.001	2.12	17	36.1	5299
2/13/2009	656		663	70,696	7.07E-05	1.56E-04	4.41E-06	360	0.001	1.91	28	53.5	5353
2/20/2009	663		688					292	0.001	1.63	7	11.4	5364
3/17/2009	688							359	0.002	2.28	25	56.9	5421

- General Notes:
- Influent flow rate derived from differential pressure readings and anen

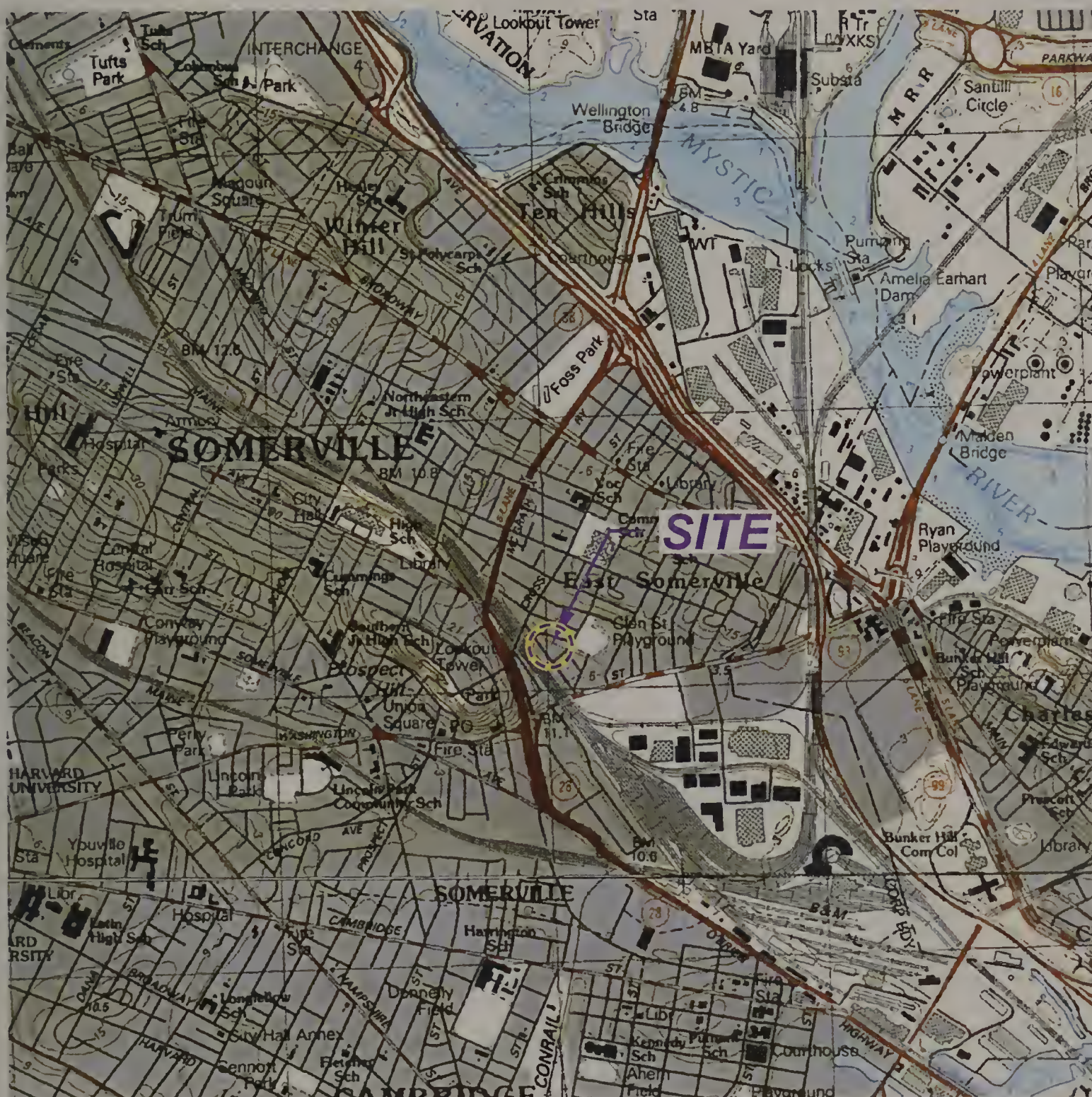


Geotechnical
Environmental
Water Resources
Ecological

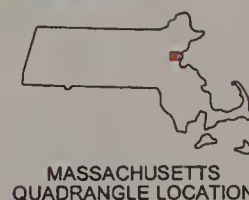


50 Tufts Street, Somerville, Massachusetts
May 11, 2009

Figures



0 1000 2000 4000 6000
SCALE, FEET



This Image provided by MassGIS is taken from
U.S.G.S. Topographic 7.5 X 15 Minute Series
Boston North, MA Quadrangle, 1985.
Datum is National Geodetic Vertical Datum (NGVD 1929).
Contour Interval is 3 Meters.

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SITE LOCATION MAP

Project 04516-3

May 2009

Fig. 1-1

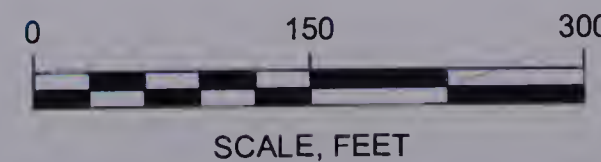


LEGEND:

- MONITORING WELL WITH SOIL VAPOR SAMPLE PORT INSTALLED BY GEI, JANUARY 2007 - JANUARY 2008
- MONITORING WELL INSTALLED BY SANBORN HEAD ASSOCIATES, 2002
- MONITORING WELL INSTALLED BY GEOINSIGHT, JUNE 2004
- SOIL BORING ADVANCED BY GEOINSIGHT, AUGUST 2004
- MONITORING WELL INSTALLED BY GEI, MAY 2006
- DRIVEN POINT MONITORING WELL INSTALLED BY MADEP, MAY 2007
- MONITORING WELL INSTALLED PREVIOUSLY, DATE UNKNOWN
- PREVIOUSLY INSTALLED IRRIGATION WELL
- CHAIN LINK FENCE
- 138 ROOM NUMBER AT CAPUANO SCHOOL
- BOUNDARY OF COMMUNITY GARDENS
- 84 STREET ADDRESS
- MBTA = MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
- DISPOSAL SITE BOUNDARY (DASHED WHERE INFERRED)
- EXTENT OF PCE CONCENTRATION IN GROUNDWATER GREATER THAN OR EQUAL TO 50 µg/l.
- µg/l = MICROGRAMS PER LITER

GENERAL NOTES:

1. HORIZONTAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN DATUM OF 1983.
2. STREET AND PROPERTY LINES BASED ON SOMERVILLE ASSESSORS' MAPS AND ARE BEST FIT RELATIVE TO THE LOCATION OF THE 50 TUFTS ST. BUILDING.
3. MONITORING WELL LOCATIONS AND ELEVATIONS, AND CAPUANO CENTER COMMUNITY GARDEN LOCATIONS WERE ESTABLISHED BY ON THE GROUND SURVEYS BY BSC GROUP, INC.
4. GEI OBSERVED DECOMMISSIONING OF SH-MW1 AND SH-1 THROUGH SH-5 IN 2007.
5. THE 50 µg/l BOUNDARY LINE IS BASED ON GROUNDWATER ANALYTICAL RESULTS PRESENTED IN THE PHASE II COMPREHENSIVE SITE ASSESSMENT (JULY 16, 2008).



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Project 04516-3

DISPOSAL SITE MAP
AND
SITE BOUNDARY

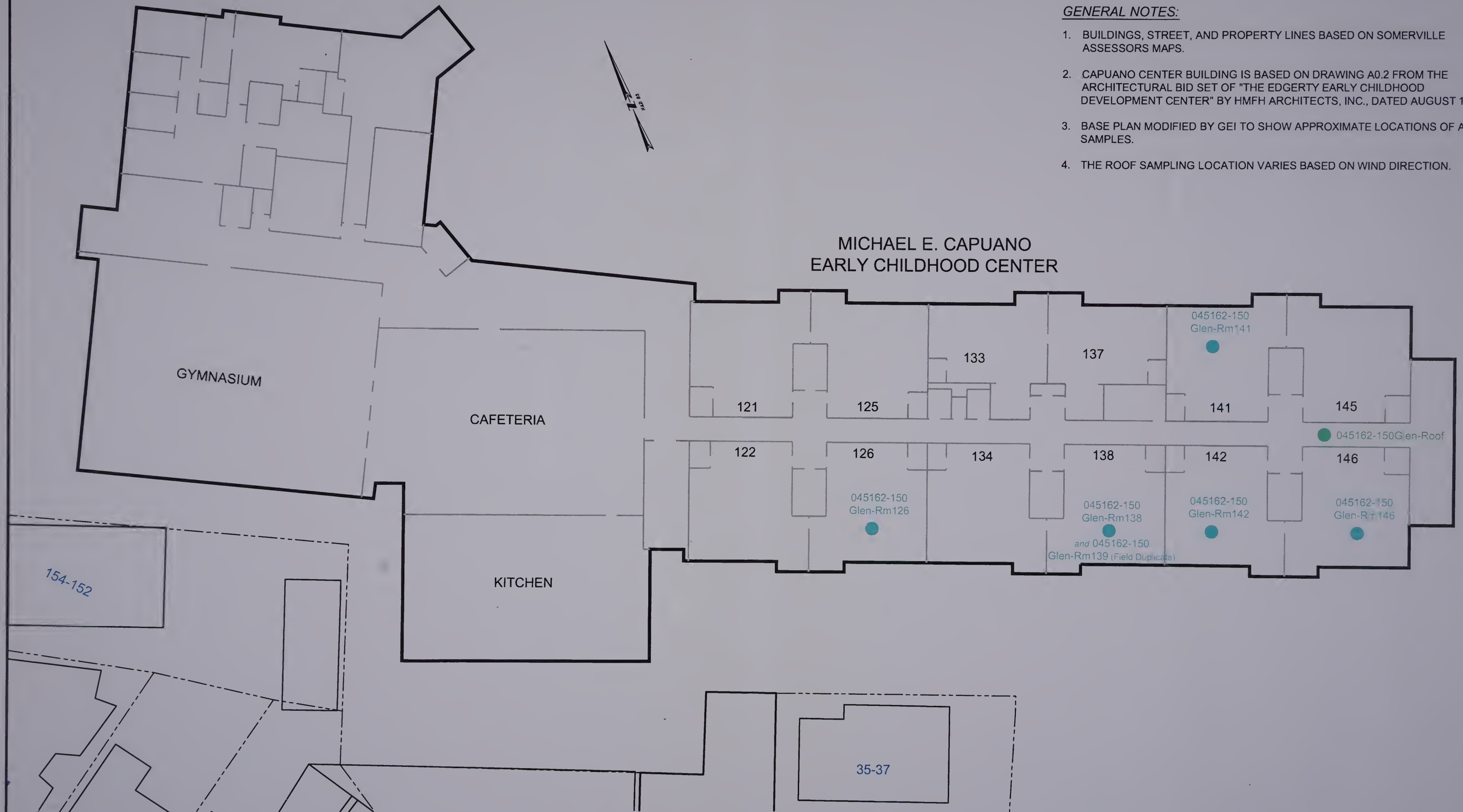
May 2009

Fig. 1-2

GENERAL NOTES:

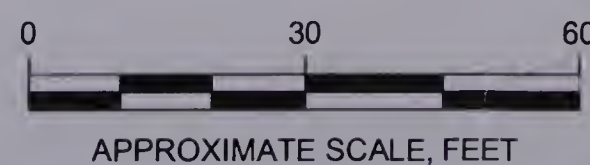
1. BUILDINGS, STREET, AND PROPERTY LINES BASED ON SOMERVILLE ASSESSORS MAPS.
2. CAPUANO CENTER BUILDING IS BASED ON DRAWING A0.2 FROM THE ARCHITECTURAL BID SET OF "THE EDGERTY EARLY CHILDHOOD DEVELOPMENT CENTER" BY HMFH ARCHITECTS, INC., DATED AUGUST 10, 2001.
3. BASE PLAN MODIFIED BY GEI TO SHOW APPROXIMATE LOCATIONS OF AIR SAMPLES.
4. THE ROOF SAMPLING LOCATION VARIES BASED ON WIND DIRECTION.

**MICHAEL E. CAPUANO
EARLY CHILDHOOD CENTER**



LEGEND:

- INDOOR AIR SAMPLE (4-HOUR SUMMA CANISTER)
- OUTDOOR AIR SAMPLE (4-HOUR SUMMA CANISTER)
- 138 ROOM NUMBER AT CAPUANO SCHOOL



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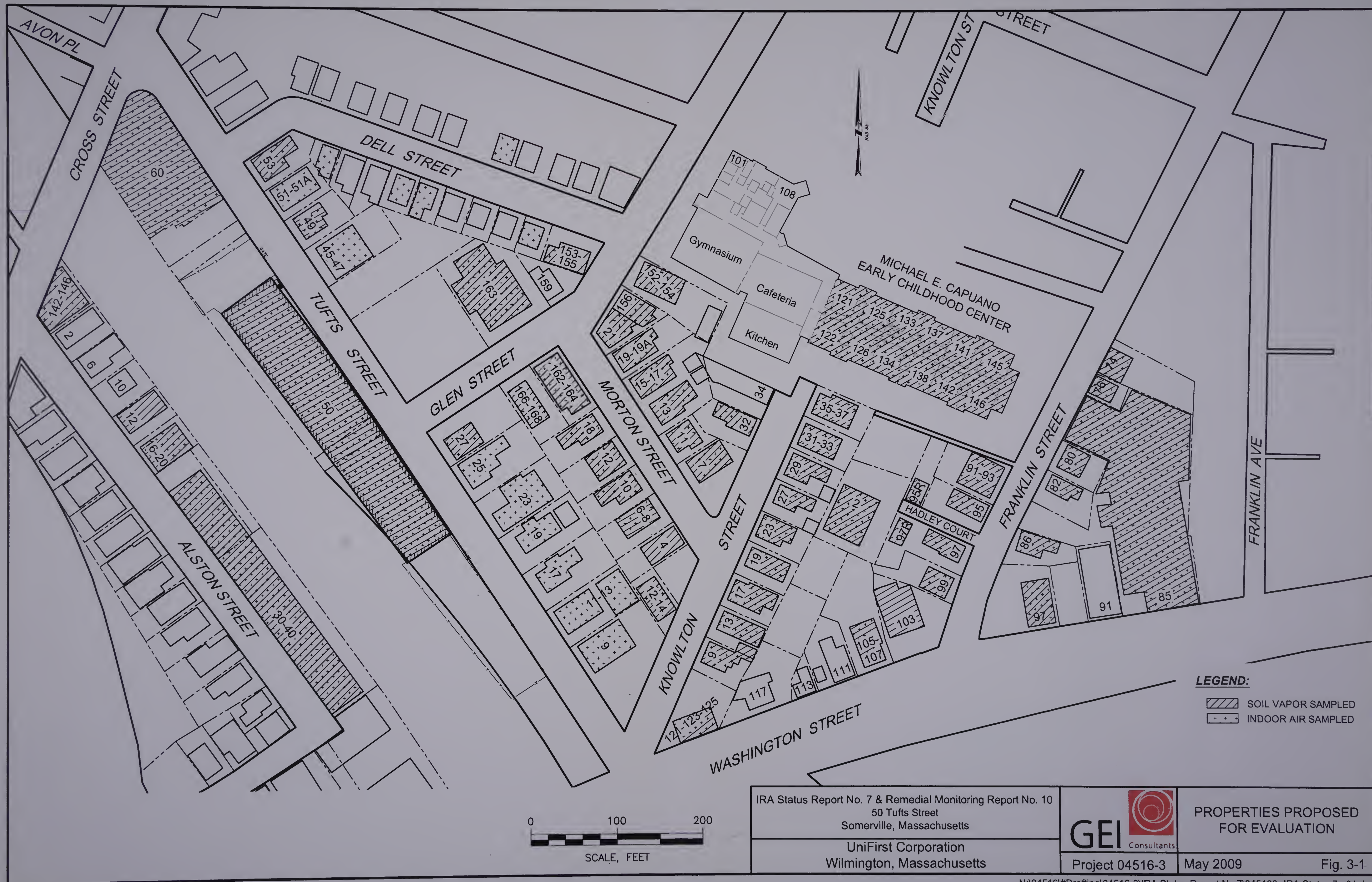


**INDOOR AND OUTDOOR AIR
SAMPLING LOCATIONS
CAPUANO CENTER**

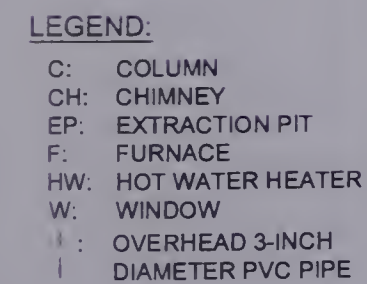
Project 04516-3

May 2009

Fig. 2-1







FLOOR JOIST OR BEAM

FAN

EXISTING BRICK FOUNDATION WALL

EXISTING FIELDSTONE FOUNDATION WALL

EXTRACTION PIT AND VENT PIPE

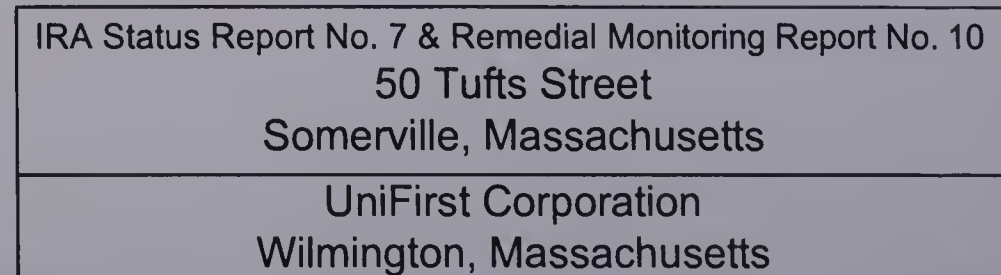
EXISTING SLAB

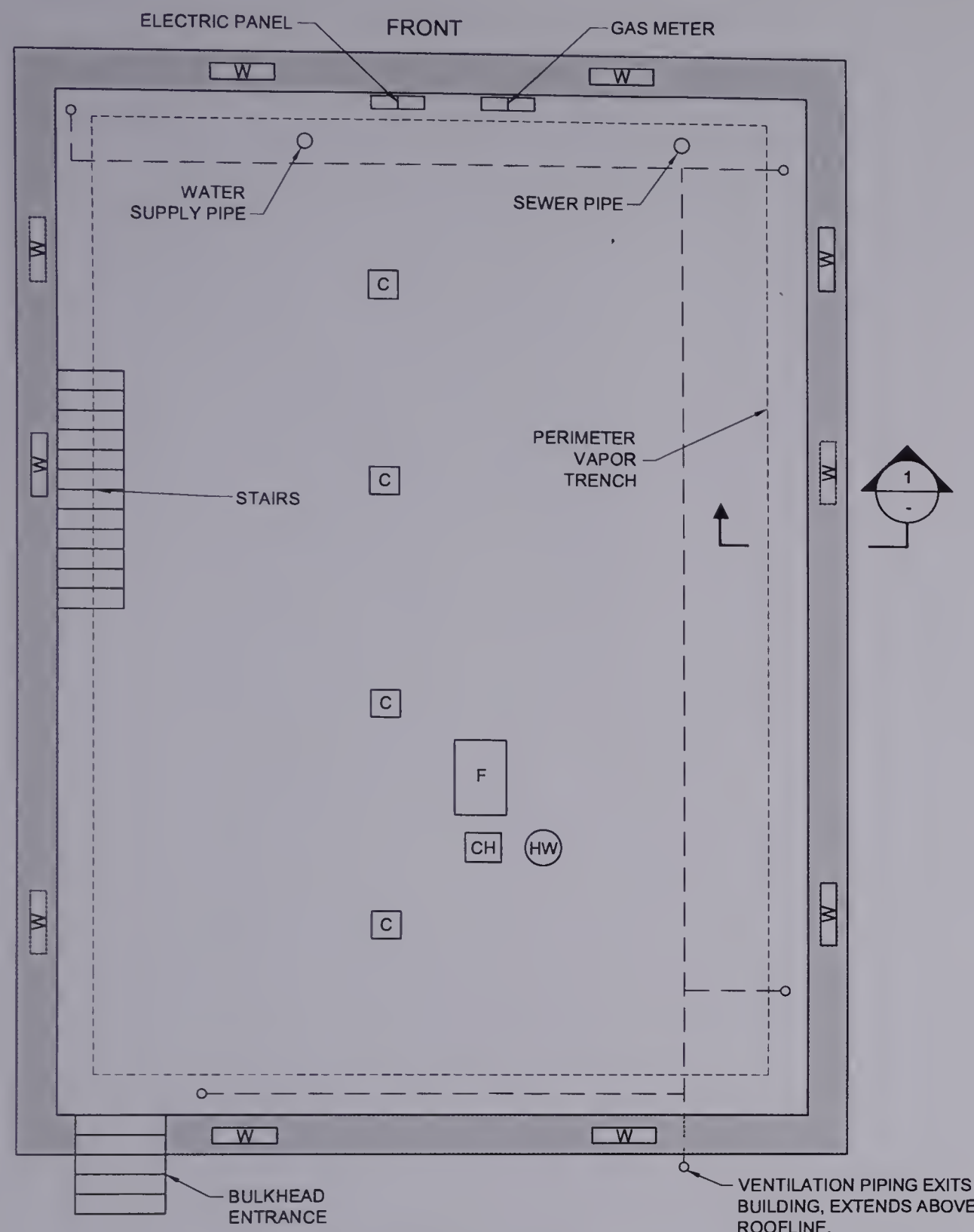
DET. A

SECTION 1

NOT TO SCALE

- NOTES:**
1. DRAWINGS AND SPECIFICATIONS SHOWN HERE ARE FOR CONCEPTUAL DESIGN PURPOSES ONLY. ACTUAL DESIGN DETAILS AND SPECIFICATIONS SHOULD BE DETERMINED BASED ON FIELD CONDITIONS.
 2. BASEMENT COMPONENTS SHOWN HERE SUCH AS FURNACES, BULKHEADS, HOT WATER HEATERS, ETC. MAY NOT BE REPRESENTATIVE AT ALL BASEMENTS.

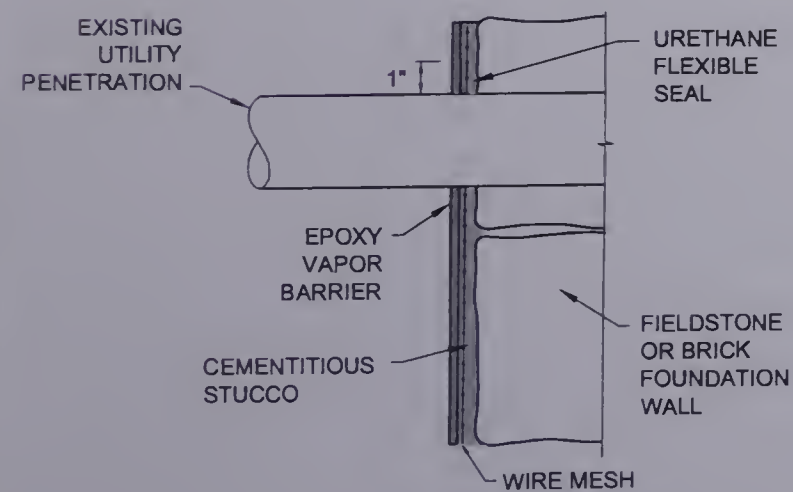




BASEMENT PLAN
NOT TO SCALE

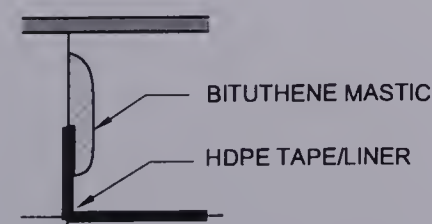
LEGEND

- C = COLUMN
- F = FURNACE
- HW = WATER HEATER
- W = WINDOW AT TOP OF WALL
- = OVERHEAD 3-INCH DIAMETER PVC PIPE

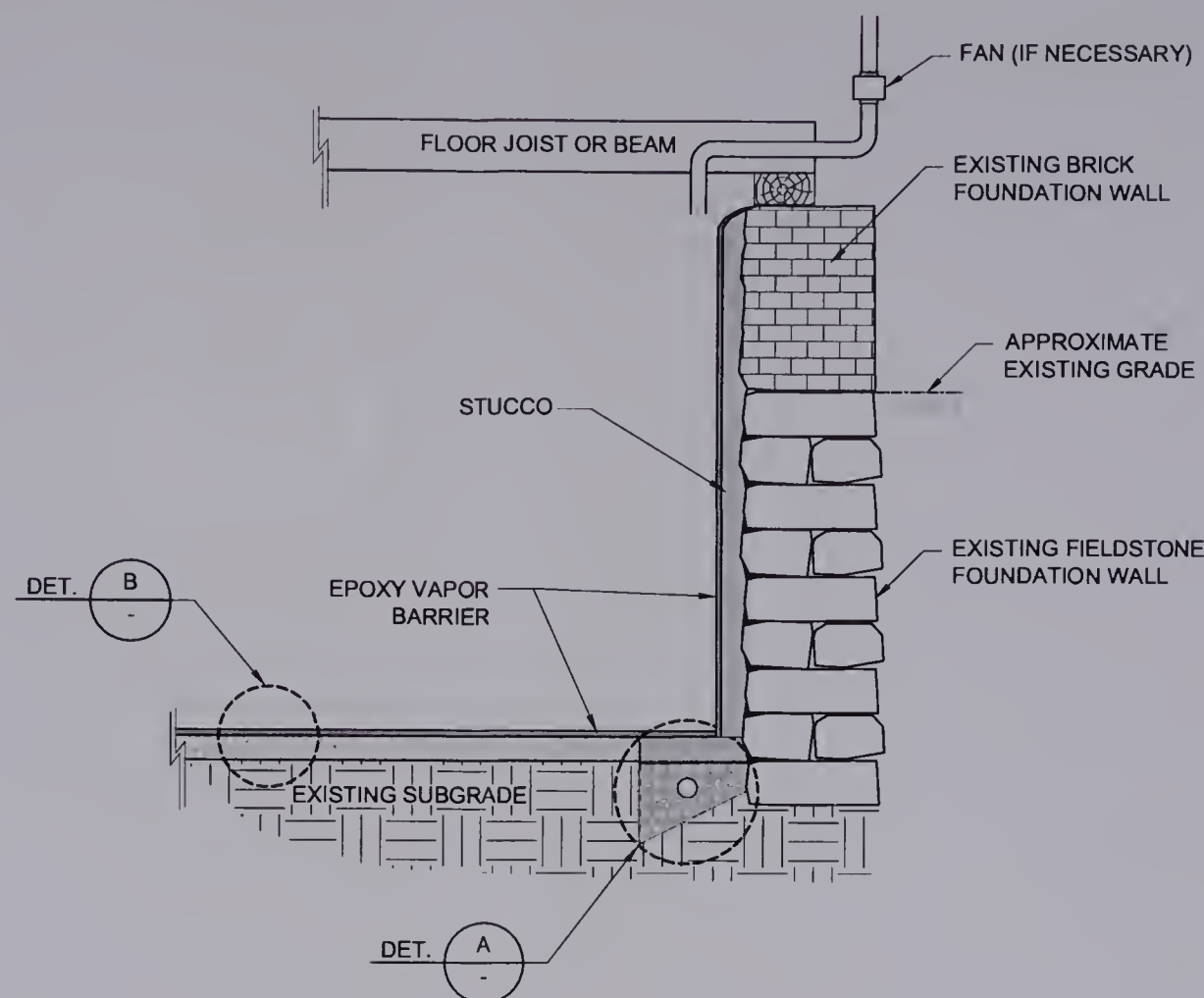


DETAIL - EXISTING UTILITY PENETRATION AT FOUNDATION WALL

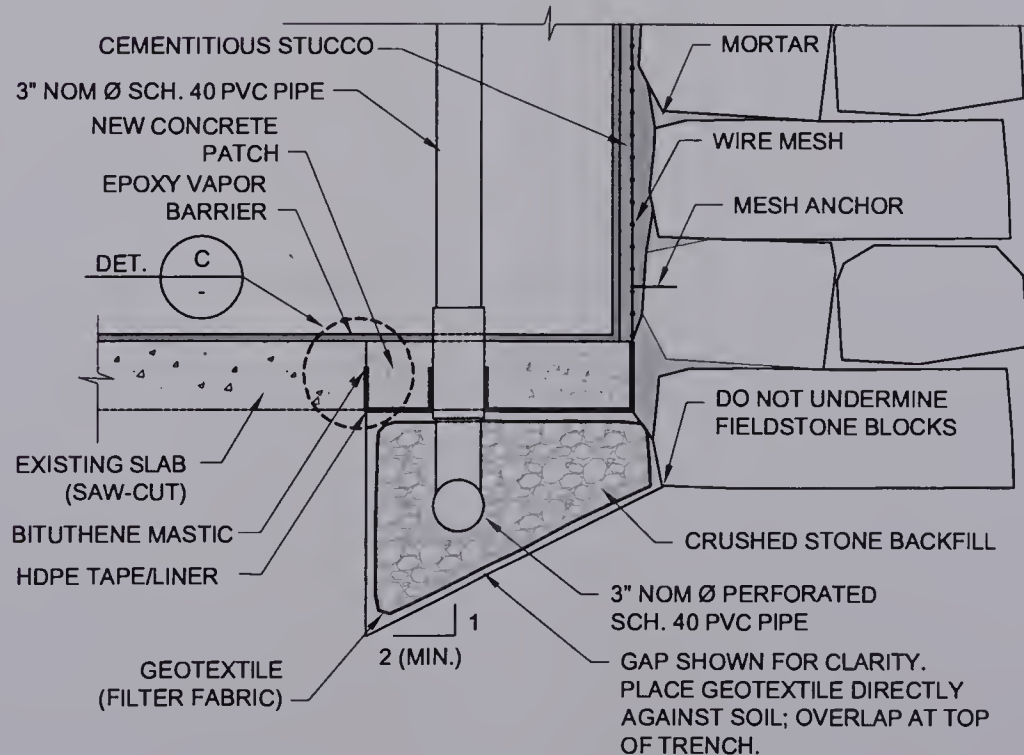
NOT TO SCALE



DETAIL - HDPE TAPE DETAIL

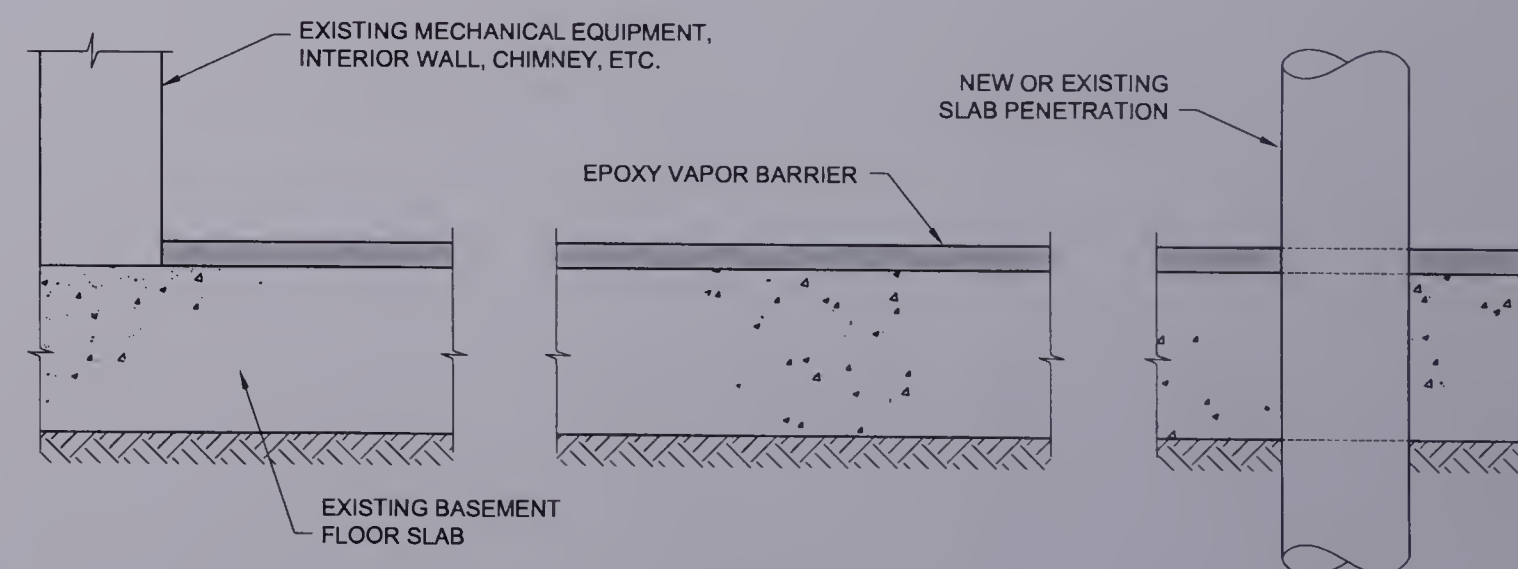


SECTION 1
NOT TO SCALE



DETAIL - PERIMETER VAPOR TRENCH

NOT TO SCALE



DETAIL - BASEMENT SLAB VAPOR BARRIER SYSTEM

NOT TO SCALE

SPECIFICATIONS:

- 1) CONCRETE: IN ACCORDANCE WITH ACI 301 "SPECIFICATION FOR STRUCTURAL CONCRETE"
 - A) MINIMUM COMPRESSIVE STRENGTH (F'C) (ASTM C39): 3000 PSI @ 28 DAYS
 - B) PORTLAND CEMENT (ASTM C150): TYPE II OR IIA
 - C) MAXIMUM WATER-TO-CEMENT RATIO BY WEIGHT: 0.50
 - D) AGGREGATE (ASTM C33): 3/4-INCH NOMINAL MAXIMUM SIZE
 - E) SLUMP (ASTM C143): 3 INCHES TO 5 INCHES
 - F) AIR CONTENT: 7.0%, +/- 1.5%
 - G) PERMITTED ADMIXTURES: AIR ENTRAINING, FIBER REINFORCEMENT
- 2) CONCRETE FINISHING: FLOAT FINISH.
- 3) SOLID PVC PIPE: ASTM D1785, SCHEDULE 40
- 4) PERFORATED PVC PIPE: ASTM D2729
- 5) CRUSHED STONE: MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 1988 EDITION, SECTION M2.01.4 (3/4-INCH NOMINAL SIZE); GRADATION RECAPITULATED BELOW:

SIEVE SIZE	PERCENT PASSING BY WEIGHT
1 INCH	100
3/4 INCH	90-100
1/2 INCH	10-50
3/8 INCH	0-20
NO. 4	0-5
- 6) FILTER FABRIC: 12 OZ. POLYPROPYLENE NON-WOVEN GEOTEXTILE
- 7) MASTIC: W.R. GRACE & CO. BITUTHENE MASTIC
- 8) WIRE MESH ANCHORED VIA MASONRY FASTENERS. ANCHORS INSTALLED INTO STONE AND BRICK NOT MORTAR JOINTS.
- 9) STUCCO: CEMENTITIOUS STUCCO APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. FINISHED TOTAL THICKNESS 1 INCH, ± 1/8 INCH.
- 10) EPOXY VAPOR BARRIER: SIKAGARD 62
- 11) VENTILATION PIPING EXITS BUILDING ENVELOPE ABOVE SILL ELEVATION.

NOTES:

1. DRAWINGS AND SPECIFICATIONS SHOWN HERE ARE FOR CONCEPTUAL DESIGN PURPOSES ONLY. ACTUAL DESIGN DETAILS AND SPECIFICATIONS SHOULD BE DETERMINED BASED ON FIELD CONDITIONS.
2. BASEMENT COMPONENTS SHOWN HERE SUCH AS FURNACES, BULKHEADS, HOT WATER HEATERS, ETC. MAY NOT BE REPRESENTATIVE AT ALL BASEMENTS.

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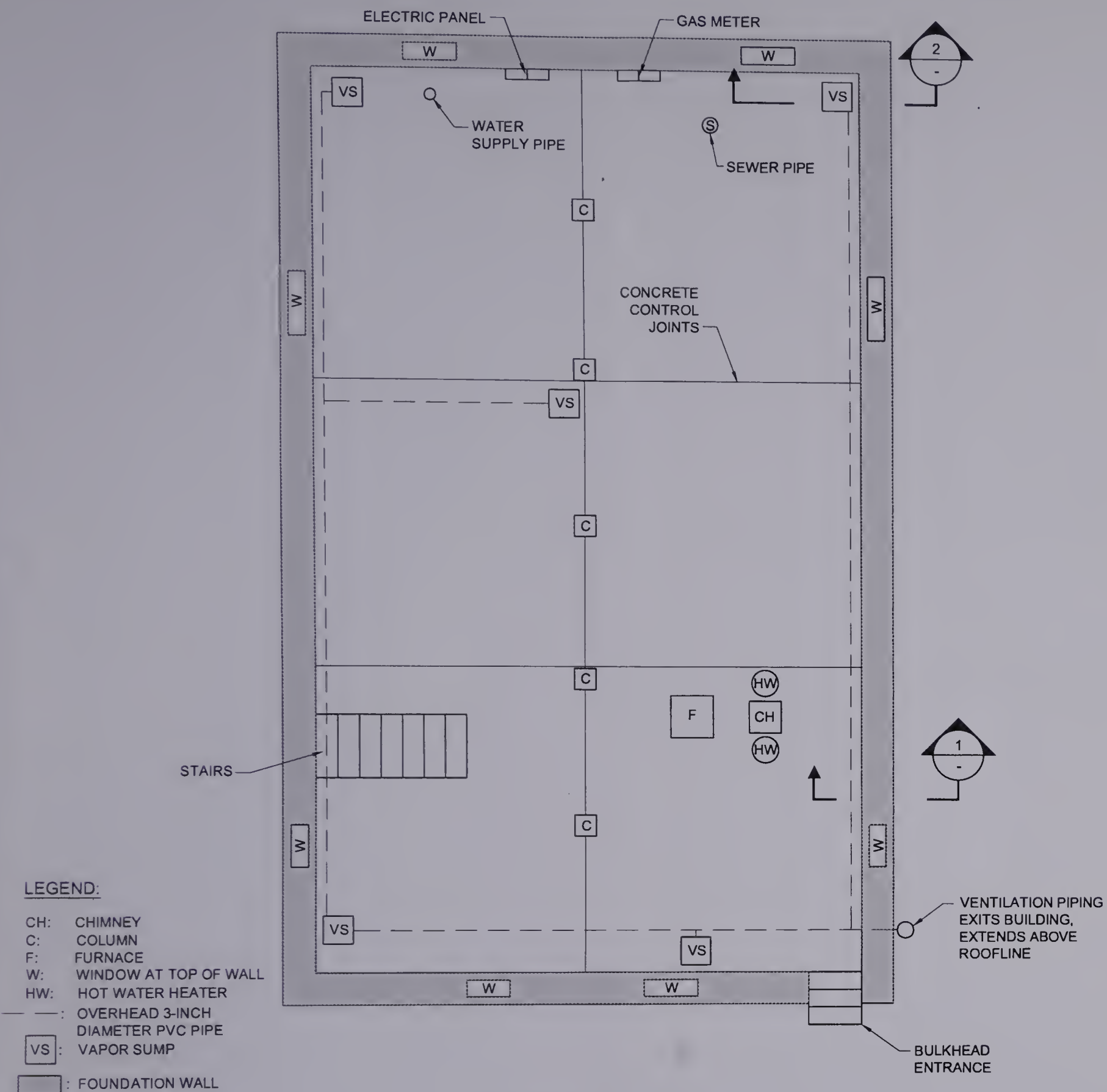


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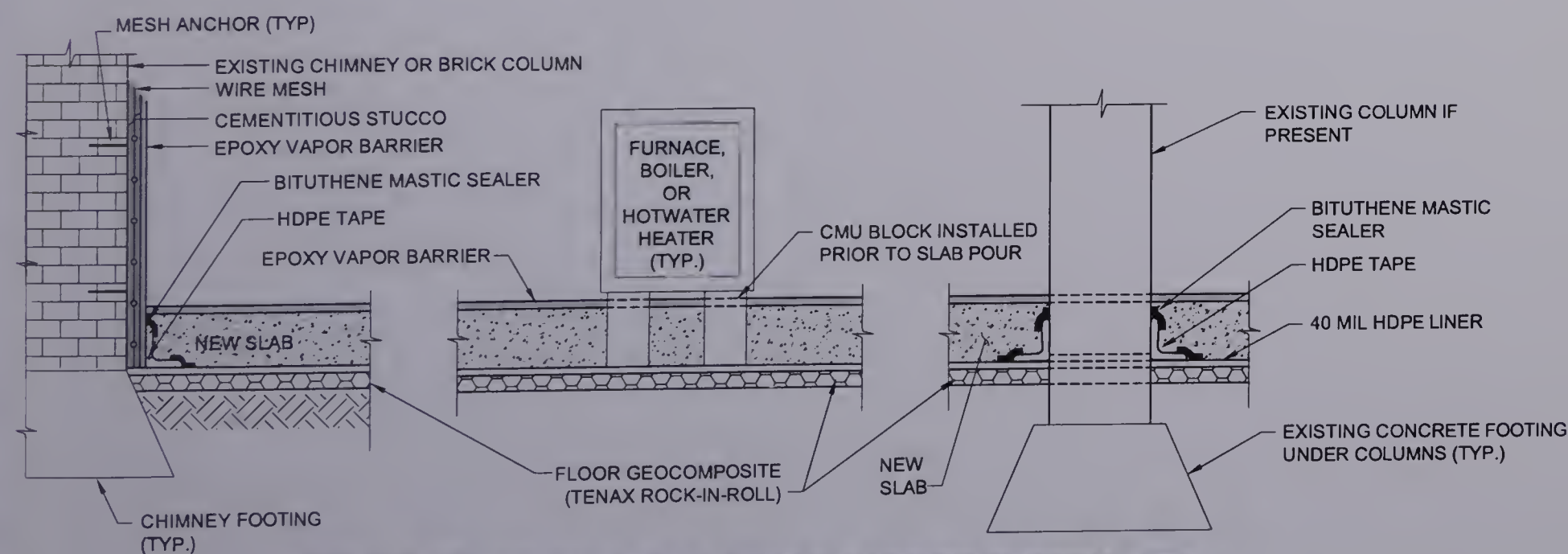
EXPOSURE PATHWAY
ELIMINATION MEASURE
OPTION 2 SCHEMATIC

May 2009

Fig. 3-3b

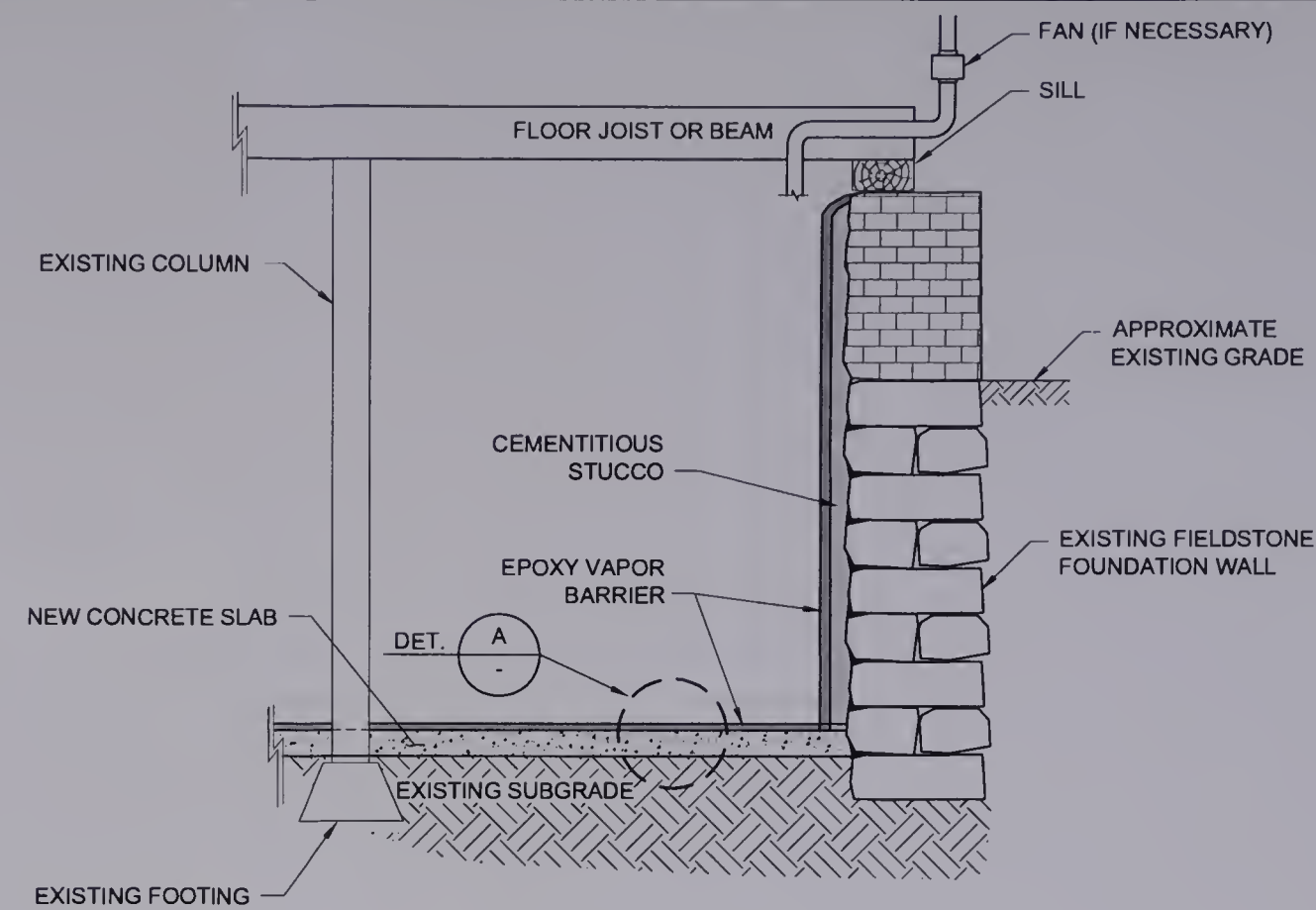


BASEMENT PLAN
NOT TO SCALE

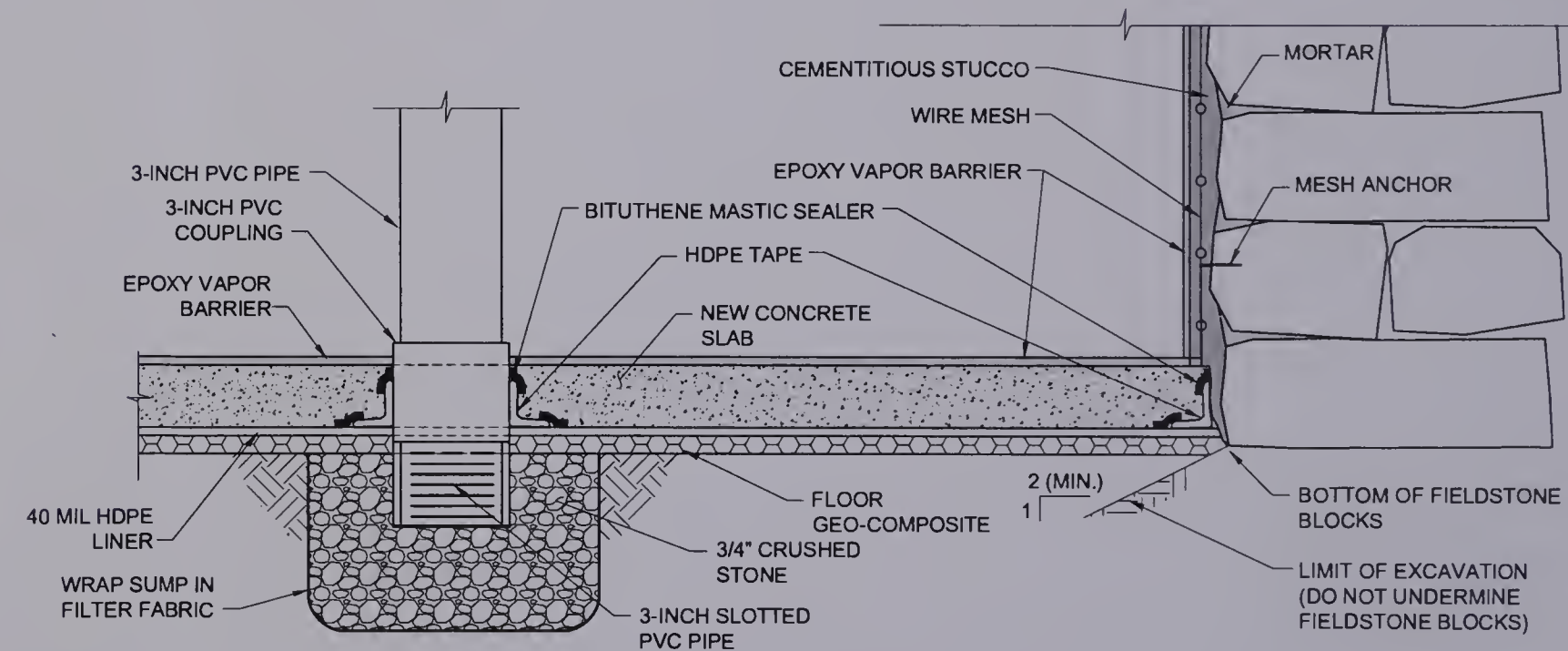


DETAIL - BASEMENT SLAB VAPOR BARRIER SYSTEM

NOT TO SCALE



SECTION 1
NOT TO SCALE



TYPICAL SECTION - VENT PIPE PENETRATION THRU NEW BASEMENT FLOOR SLAB
VAPOR SUMP
NOT TO SCALE

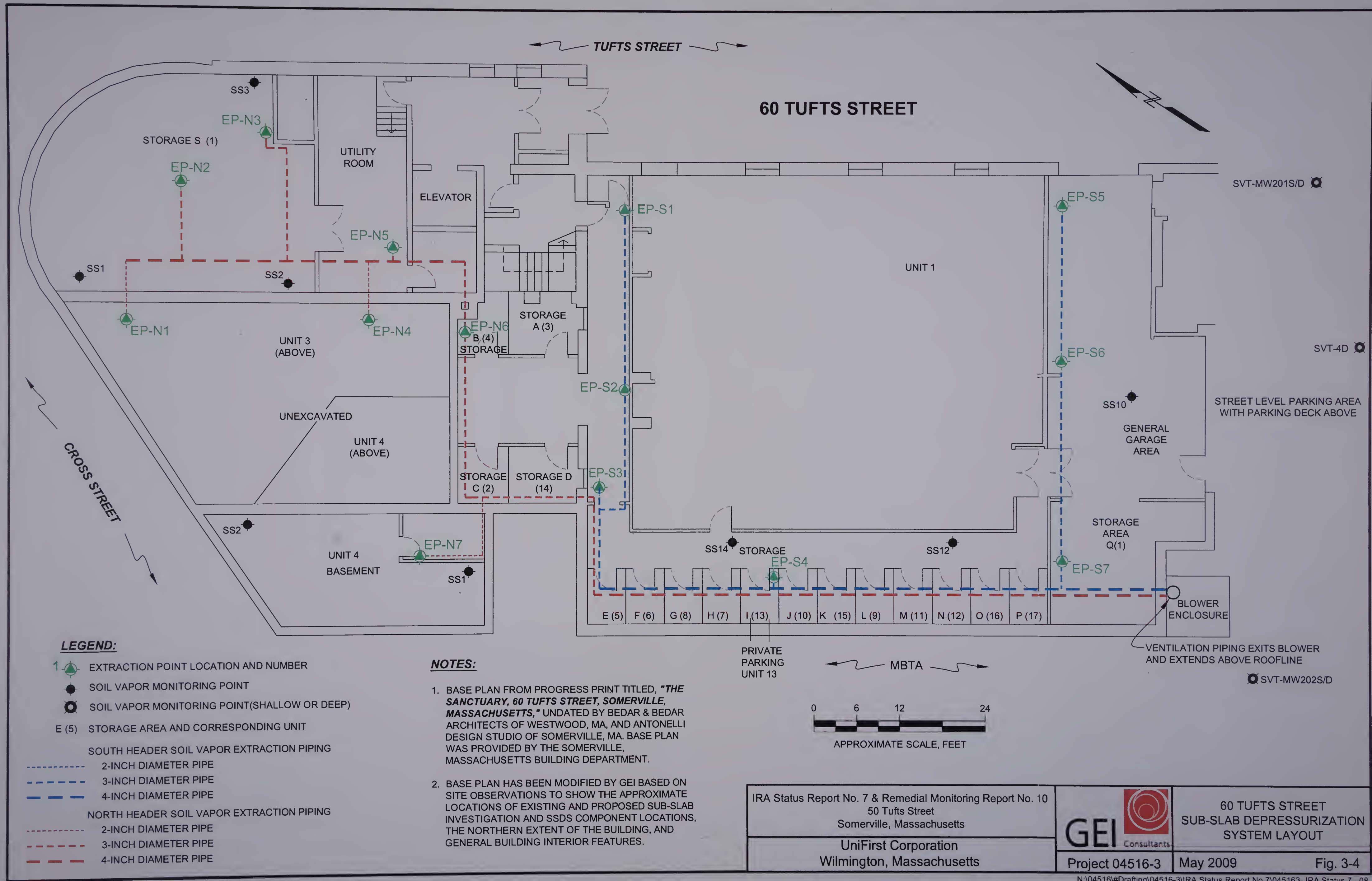
SPECIFICATIONS:

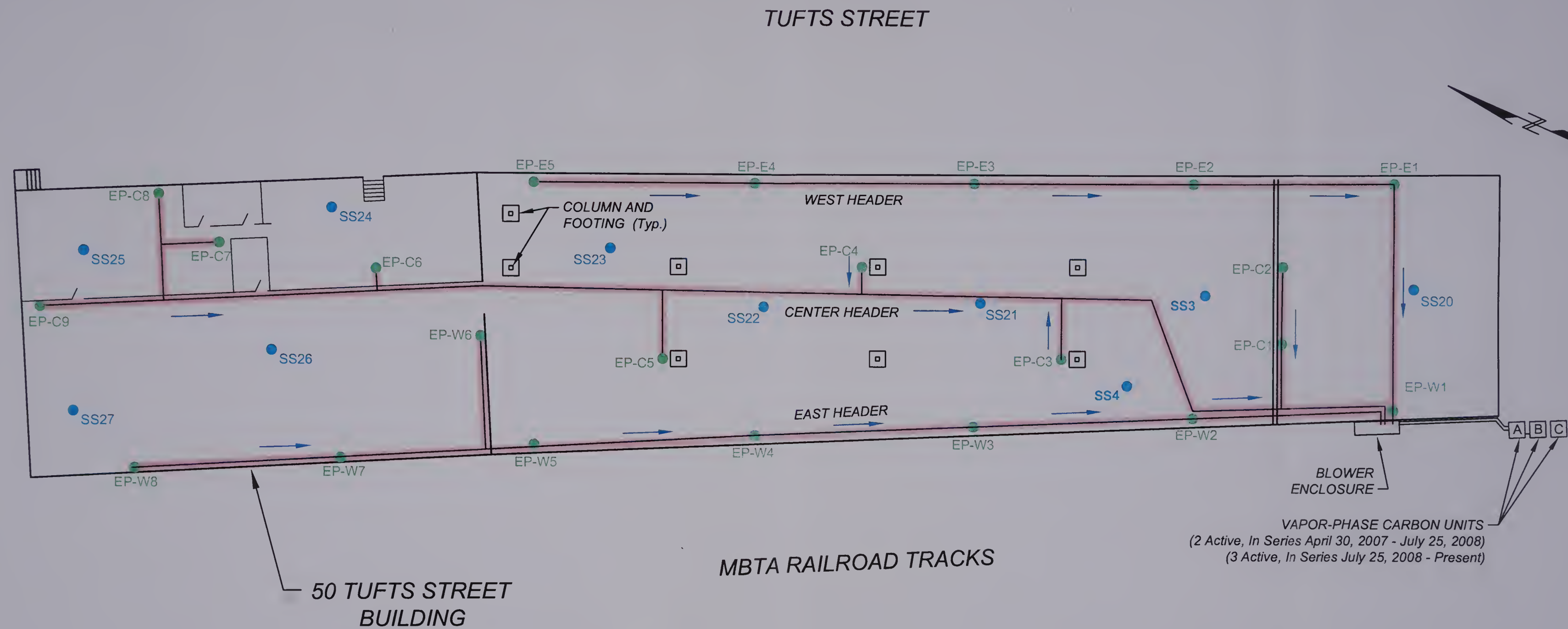
- CONCRETE: IN ACCORDANCE WITH ACI 301 "SPECIFICATION FOR STRUCTURAL CONCRETE"
 - MINIMUM COMPRESSIVE STRENGTH (F'C) (ASTM C39): 3000 PSI @ 28 DAYS
 - PORTLAND CEMENT (ASTM C150): TYPE II OR IIA
 - MAXIMUM WATER-TO-CEMENT RATIO BY WEIGHT: 0.50
 - AGGREGATE (ASTM C33): 3/4-INCH NOMINAL MAXIMUM SIZE
 - SLUMP (ASTM C143): 3 INCHES TO 5 INCHES
 - AIR CONTENT: 7.0%, +/- 1.5%
 - PERMITTED ADMIXTURES: AIR ENTRAINING, FIBER REINFORCEMENT
- CONCRETE FINISHING: FLOAT FINISH.
- SOLID PVC PIPE: ASTM D1785, SCHEDULE 40
- SLOTTED PVC PIPE: 20 SLOT THREE ROW WELL SCREEN
- CRUSHED STONE: MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 1988 EDITION, SECTION M2.01.4 (3/4-INCH NOMINAL SIZE); GRADATION RECAPITULATED BELOW:

SIEVE SIZE	PERCENT PASSING BY WEIGHT
1 INCH	100
3/4 INCH	90-100
1/2 INCH	10-50
3/8 INCH	0-20
NO. 4	0-5
- FLOOR GEOCOMPOSITE: TENAX ROCK-IN-ROLL 7100-2 DOUBLE SIDED
- FILTER FABRIC: 12 OZ. POLYPROPYLENE NON-WOVEN GEOTEXTILE
- MASTIC: W.R. GRACE & CO. BITUTHENE MASTIC
- WIRE MESH ANCHORED VIA GALVANIZED MASONRY FASTENERS ON 1.5 FOOT GRID SPACING. ANCHORS INSTALLED INTO STONE NOT MORTAR JOINTS.
- STUCCO: CEMENTITIOUS STUCCO APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. FINISHED TOTAL THICKNESS 1 INCH, +/- 1/8 INCH.
- EPOXY VAPOR BARRIER: SIKAGARD 62
- VENTILATION PIPING EXITS BUILDING ENVELOPE ABOVE SILL ELEVATION.

NOTES:

- DRAWINGS AND SPECIFICATIONS SHOWN HERE ARE FOR CONCEPTUAL DESIGN PURPOSES ONLY. ACTUAL DESIGN DETAILS AND SPECIFICATIONS SHOULD BE DETERMINED BASED ON FIELD CONDITIONS.
- BASEMENT COMPONENTS SHOWN HERE SUCH AS FURNACES, BULKHEADS, HOT WATER HEATERS, ETC. MAY NOT BE REPRESENTATIVE AT ALL BASEMENTS.



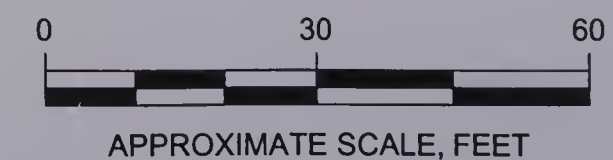


LEGEND:

- OVERHEAD 4" PVC PIPE
- AIR FLOW IN ACTIVE MODE
- SUB-SLAB EXTRACTION POINT (4" DIA. SCHEDULE 40 PVC)
- SUB-SLAB MONITORING POINT

NOTES:

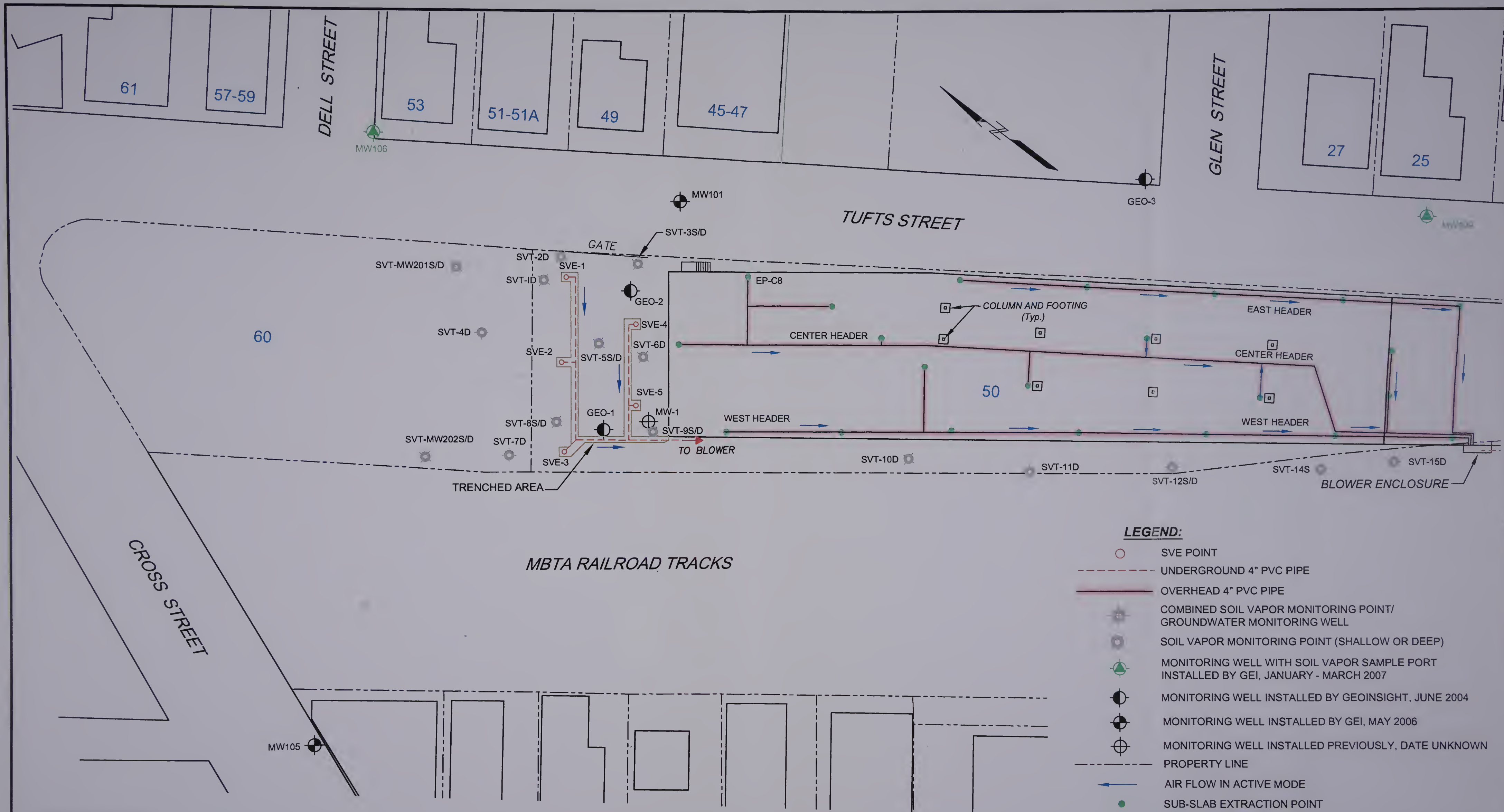
1. FIGURE BASED ON PLAN TITLED "INTERSTATE UNIFORM ADDN., TUFTS STREET SOMERVILLE, MASS." BY STRUCTURAL SYSTEMS, INC. DATED DECEMBER 2, 1976.



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UniFirst Corporation Wilmington, Massachusetts	

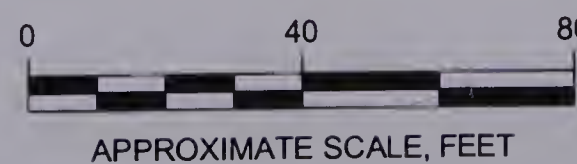
	PIPING AND EQUIPMENT LAYOUT FOR SUB-SLAB DEPRESSURIZATION SYSTEM 50 TUFTS STREET
	Project 04516-3 May 2009

Fig. 4-1



GENERAL NOTES:

- HORIZONTAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN DATUM OF 1983.
- BUILDINGS, STREET, AND PROPERTY LINES BASED ON SOMERVILLE ASSESSORS MAPS AND ARE BEST FIT RELATIVE TO THE LOCATION OF THE 50 TUFTS STREET BUILDING.
- EXISTING MONITORING WELL LOCATIONS AND ELEVATIONS WERE ESTABLISHED BY AN ON THE GROUND SURVEY BY BSC GROUP, INC.



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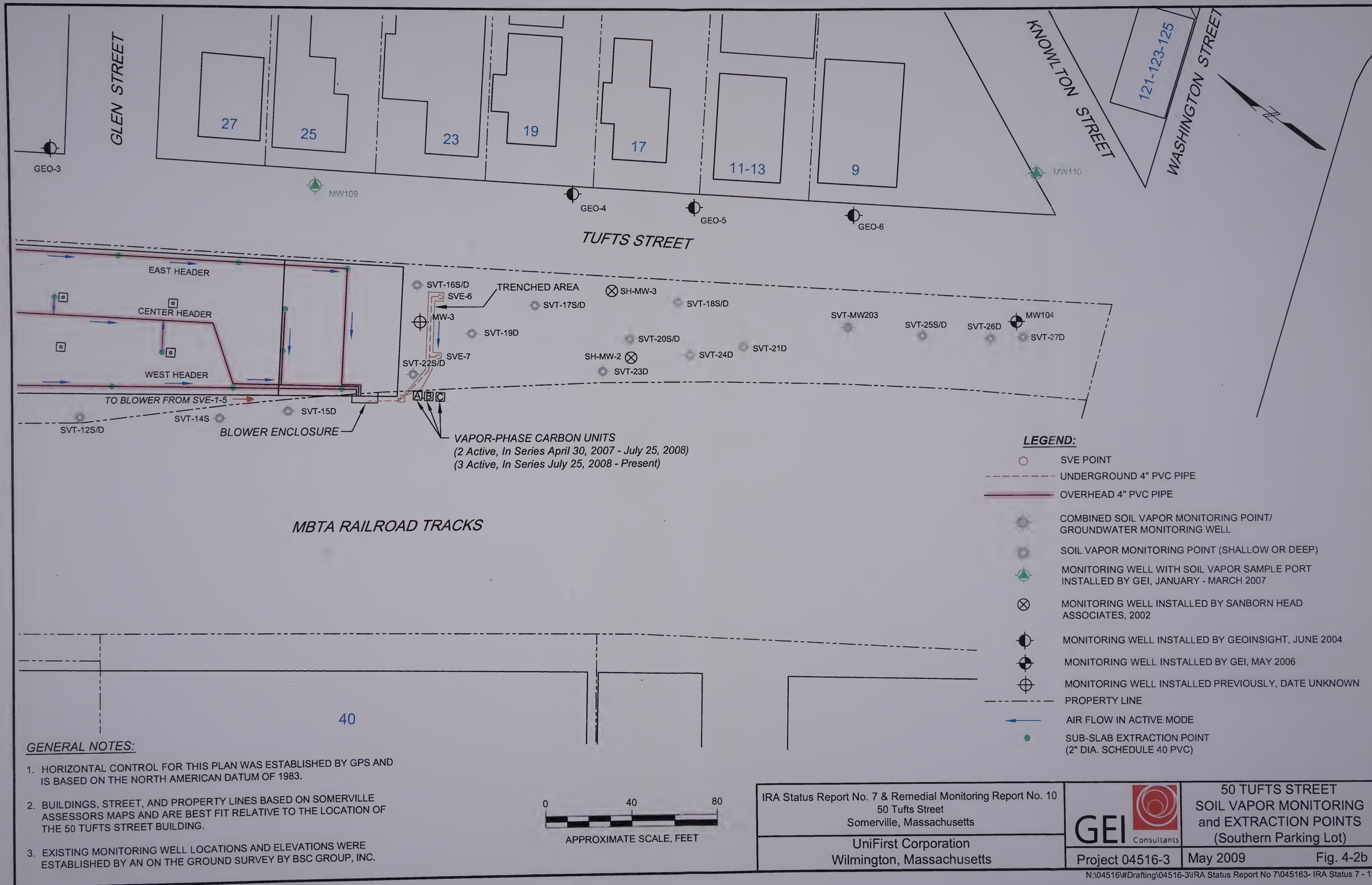


Project 04516-3

50 TUFTS STREET
SOIL VAPOR MONITORING and
EXTRACTION POINTS (Northern
Parking Lot and 60 Tufts Street)

May 2009

Fig. 4-2a



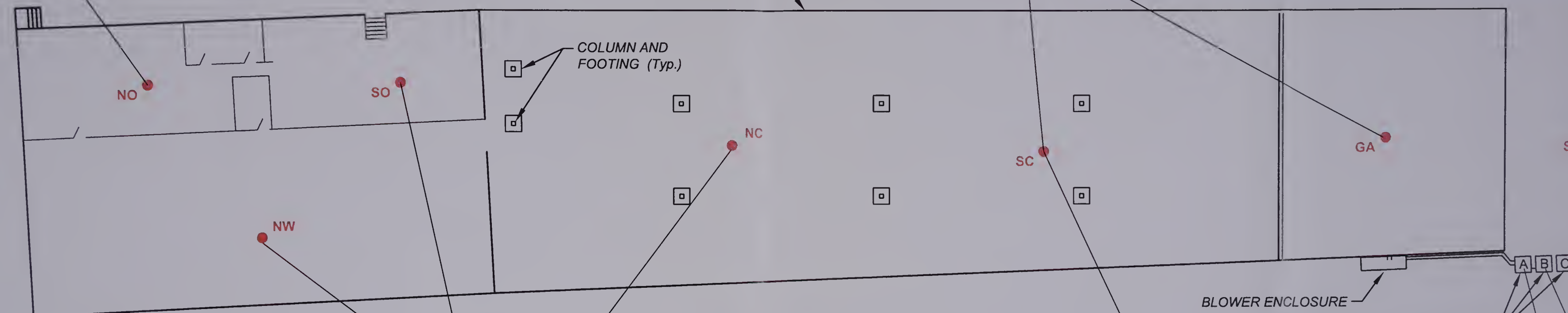
NP								
	5/1/2007	5/14/2007	6/28/2007	8/28/2007	10/4/07	12/7/07	5/1/08	3/9/09
Carbon tetrachloride	0.75 J	<1.3	<1.3	0.63 J	<1.3	0.69 J	<1.3	<1.3
PCE	1.8	7.5	12 G	14	3.9	2.2	0.66 J	<1.4
TCA 1,1,1-	0.38 J	0.98 J	2.0	2.0	0.50 J	<1.1	<1.1	<1.1
TCE	<1.1	<0.64 J	1.6	1.6	<1.1	<1.1	<1.1	<1.1

1A (duplicate of SC)				
	5/1/2007	5/14/2007	6/28/2007	12/7/07
Carbon tetrachloride	0.69 J	0.63 J	<1.3	0.69 J
PCE	8.1 P	6.8 P	10 GP	23
TCA 1,1,1-	1.2	<1.1	<1.1	4.4
TCE	1.6	<1.1	<1.1	3.6

SP								
	5/1/2007	5/14/2007	6/28/2007	8/28/2007	10/4/07	12/7/07	5/1/08	3/9/09
Carbon tetrachloride	0.69 J	0.63 J	<1.3	0.69 J	<1.3	0.75 J	<1.3	<1.3
PCE	3.7	2.8	1.8 G	180	1.3 J	2.0	1.4	<1.4
TCA 1,1,1-	<1.1	<1.1	<1.1	18	<1.1	<1.1	1.8	<1.1
TCE	<1.1	<1.1	<1.1	12	<1.1	<1.1	<1.1	<1.1

NO								
	5/1/2007	5/14/2007	6/28/2007	8/28/2007	10/4/07	12/7/07	5/1/08	3/9/09
Carbon tetrachloride	0.69 J	<1.3	0.61 J	0.63 J	<1.3	0.75 J	<1.3	<1.3
PCE	34	6.4	8.8 G	8.8	4.3	12	4.3	2.0
TCA 1,1,1-	3.0	<1.1	0.87 J	0.93 J	<1.1	<1.1	0.85 J	<1.1
TCE	5.4	<1.1	0.70 J	0.91 J	<1.1	<1.1	1.3	<1.1

GA								
	5/1/2007	5/14/2007	6/28/2007	8/28/2007	10/4/07	12/7/07	5/1/08	3/9/09
Carbon tetrachloride	0.75 J	<1.3	0.69 J	0.63 J	<1.3	0.63 J	<1.3	<1.3
PCE	50	26	22 G	79.3	6.2	10	9.5	6.4
TCA 1,1,1-	1.5	<1.1	<1.1	5.2	<1.1	<1.1	1.0 J	<1.1
TCE	2.4	<1.1	<1.1	4.4	<1.1	<1.1	1.9	<1.1



NW								
	5/1/2007	5/14/2007	6/28/2007	8/28/2007	10/4/07	12/7/07	5/1/08	3/9/09
Carbon tetrachloride	0.75 J	<1.3	0.69 J	0.69 J	<1.3	0.63 J	<1.3	<1.3
PCE	33	11	15 G	45	12	12	6.1	5.0
TCA 1,1,1-	2.6	<1.1	0.60 J	4.0	<1.1	<1.1	0.82 J	<1.1
TCE	4.1	<1.1	<1.1	2.8	<1.1	<1.1	1.7	<1.1

NC								
	5/1/2007	5/14/2007	6/28/2007	8/28/2007	10/4/07	12/7/07	5/1/08	3/9/09
Carbon tetrachloride	0.75 J	<1.3	0.60 J	0.59 J	<1.3	0.63 J	<1.3	<1.3
PCE	47	30	16 G	69.2	5.5	10	6.4	6.1
TCA 1,1,1-	1.4	<1.1	<1.1	3.7	<1.1	<1.1	0.98 J	<1.1
TCE	2.0	<1.1	<1.1	3.4	<1.1	<1.1	1.9	<1.1

SO								
	5/1/2007	5/14/2007	6/28/2007	8/28/2007	10/4/07	12/7/07	5/1/08	3/9/09
Carbon tetrachloride	0.75 J	<1.3	0.69 J	0.61 J	<1.3	0.62 J	<1.3	<1.3
PCE	38	14	18 G	15	5.5	11	4.8	2.4
TCA 1,1,1-	1.9	<1.1	0.55 J	1.4	<1.1	<1.1	0.71 J	<1.1
TCE	3.4	<1.1	0.81 J	1.4	<1.1	<1.1	1.5	<1.1

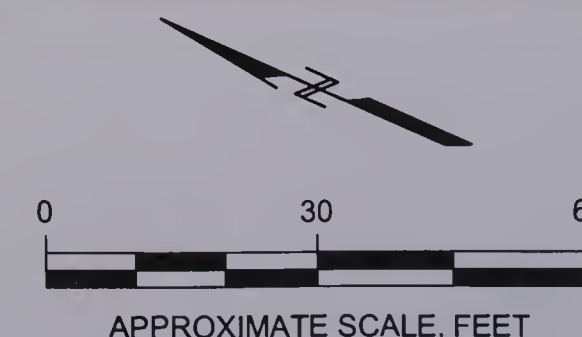
Carbon Influent			
	5/1/2007	6/12/2007	3/13/2008
DCE 1,1-	311	4950	<8100
PCE	392000	347000 G	157000
TCA 1,1,1-	13700	12800	2460
TCE	15700	5800	2450

Carbon Effluent		
	5/1/2007	6/12/2007
DCE 1,1-	<0.79	513
PCE	<1.4	117
TCA 1,1,1-	<1.1	8780
TCE	<1.1	28

SC													
	5/1/2007	5/14/2007	6/28/2007	8/28/2007	10/4/2007 (SC1)	10/4/2007 (SC2)	10/4/2007 (SC3)	10/4/2007 (SC4)	12/7/07	5/1/2008 (SC1)	5/1/2008 (SC2)	3/9/2009 (SC1)	3/9/2009 (SC2)
Carbon Tetrachloride	<1.3	<1.3	0.69 J	0.75 J	<1.3	<1.3	0.60 J	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
PCE	43 P	23 P	18 GP	66	6.0	5.9	5.7	5.4	11	6.6	8.1	6.0	8.7
TCA 1,1,1-	1.3	<1.1	0.50 J	4.7	<1.1	<1.1	<1.1	<1.1	<1.1	0.93 J	0.98 J	<1.1	<1.1
TCE	2.0	<1.1	<1.1	3.8	<1.1	<1.1	<1.1	<1.1	<1.1	1.8	2.1	<1.1	<1.1

NOTES:

- FIGURE BASED ON PLAN TITLED "INTERSTATE UNIFORM ADDN., TUFTS STREET SOMERVILLE, MASS." BY STRUCTURAL SYSTEMS, INC. DATED DECEMBER 2, 1976.
- AUGUST 28, 2007 DATA WAS COLLECTED WHILE PCE CONTAMINATED SOIL FROM SVE INSTALLATION WAS STORED ON-SITE IN ROLL-OFF CONTAINERS.
- ONLY DETECTED CHLORINATED VOCs ARE SHOWN HERE.
- "ND" = NOT DETECTED.
- J = THE REPORTED RESULT IS BELOW THE LABORATORY REPORTING LIMITS AND IS ESTIMATED.
- G = THE REPORTED RESULT IS ESTIMATED DUE TO LABORATORY DUPLICATE PRECISION.
- P = THE REPORTED RESULT IS ESTIMATED DUE TO FIELD DUPLICSTE PRECISION OUTSIDE CONTROL LIMITS.



LEGEND:

- GA INDOOR AIR MONITORING LOCATION (3'-9" ABOVE SLAB)
- GA GARAGE AREA
- NC NORTH CENTRAL WAREHOUSE
- NO NORTH OFFICE
- NP NORTH PARKING LOT
- NW NORTH WAREHOUSE
- SC SOUTH CENTRAL WAREHOUSE
- SO SOUTH OFFICE
- SP SOUTH PARKING LOT

IRA Status Report No. 7 & Remedial Monitoring Report No. 10
50 Tufts Street
Somerville, Massachusetts
UniFirst Corporation
Wilmington, Massachusetts

GEI Consultants
Project 04516-3
May 2009

50 TUFTS STREET
INDOOR AND OUTDOOR
AIR TESTING RESULTS

Fig. 4-3

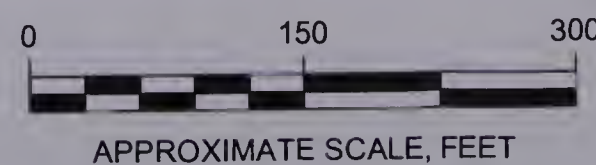


LEGEND:

- MONITORING WELL WITH SOIL VAPOR SAMPLE PORT INSTALLED BY GEI, JANUARY 2007 - JANUARY 2008
- MONITORING WELL INSTALLED BY SANBORN HEAD ASSOCIATES, 2002
- MONITORING WELL INSTALLED BY GEOINSIGHT, JUNE 2004
- SOIL BORING ADVANCED BY GEOINSIGHT, AUGUST 2004
- MONITORING WELL INSTALLED BY GEI, MAY 2006
- DRIVEN POINT MONITORING WELL INSTALLED BY MADEP, MAY 2007
- MONITORING WELL INSTALLED PREVIOUSLY, DATE UNKNOWN
- PREVIOUSLY INSTALLED IRRIGATION WELL
- 138 ROOM NUMBER AT CAPUANO SCHOOL
- BOUNDARY OF COMMUNITY GARDENS
- 84 STREET ADDRESS
- APPROXIMATE SHALLOW SOIL SAMPLING LOCATION
- MBTA = MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

GENERAL NOTES:

1. HORIZONTAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN DATUM OF 1983.
2. STREET AND PROPERTY LINES BASED ON SOMERVILLE ASSESSORS' MAPS AND ARE BEST FIT RELATIVE TO THE LOCATION OF THE 50 TUFTS STREET BUILDING.
3. MONITORING WELL LOCATIONS AND ELEVATIONS, AND CAPUANO CENTER COMMUNITY GARDEN LOCATIONS WERE ESTABLISHED BY ON THE GROUND SURVEYS BY BSC GROUP, INC.
4. GEI OBSERVED ABANDONMENT OF SH-MW1 AND SH-1 THROUGH SH-5 IN 2007.



IRA Status Report No. 7 & Remedial Monitoring Report No. 10
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Wilmington, Massachusetts



Project 04516-3

MONITORING WELL AND
BORING LOCATIONS

May 2009

Fig. 5-1

0 100 200
APPROXIMATE SCALE FEET

[illegible]

IRA Status Report No. 7 & Remedial Monitoring Report No. 10
50 Tufts Street
Somerville, Massachusetts
UniFirst Corporation
Wilmington, Massachusetts

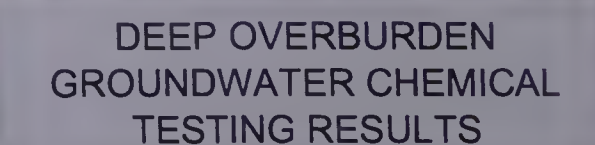


Fig. 5-3

N:\04516\#Drafting\04516-3\IRA Status Report No 7\045163- IRA Status 7 - 15

MW120D (28-38)	8/22/07	10/12/07	1/17/08	4/16/08	7/15/08	10/22/08	1/13/09
DCA, 1,1-	23 J+	26	23.2	30.8	29.5	21.8	21.4
DCE, 1,1-	15.6 J+	18.9	14.3	17.8	22	18.4	16.7
DCE, cis-1,2-	0.70 J J+	< 1.0	1.7	1.9	1.9	1.6	0.70 J
PCE	93.5 J+	120	113	131	103	118	84.2
TCA, 1,1,1-	10.3 J+	4.3	3.2	< 1.0	3.9	6.4	2.8
TCE	32.6	40.1	34.7	43.4	38.7	33.2	30.4

MW116 (5-15)	3/23/07	4/13/07	7/18/07	7/18/07 (FD)	10/12/07	10/12/07 (FD)	1/11/08	1/11/08 (FD)	4/15/08	4/15/08 (FD)	7/16/08	10/21/08
Chloroethane	< 2.0	< 2.0	2.4	2.3	2.4 J	2.4 L	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
DCA, 1,1-	135	4.4	97.3	96.9	80.1	79.3	18.9	15.6	66.8	64.5	114	109
DCE, 1,1-	107	2.7	33.8	34	24.8	22.4	14.7	11.8	46.3	45.7	78.4	79.8
DCE, cis-1,2-	103	21.7	415	431	346	341	49.5	42.9	105	102	286	319
DCE, trans-1,2-	1.8	< 1.0	4.3	4.4	2.5	2.4	0.88 J	1.3	< 1.0	< 1.0	< 2.0	1.3
PCE	1180	32.2	167	168	116	110	267 J+	257	603	607	864	839
TCA, 1,1,1-	21.6	0.67 J	10.6	10.7	9.4	9.2	3.3	2.5	10.7	10.7	16.0	15.6
TCE	358	19.4	72.7	73.2	136	129	66.3	53.6	175	174	257	269
Vinyl chloride	14.1	3.2	185	182	84.9	76.4	3.1	2.3	2.6	2.7	7.2	21.3

LEGEND:

- MONITORING WELL WITH SOIL VAPOR SAMPLE PORT INSTALLED BY GEI, JANUARY 2007 - JANUARY 2008
- MONITORING WELL INSTALLED BY SANBORN HEAD ASSOCIATES, 2002
- MONITORING WELL INSTALLED BY GEOINSIGHT, JUNE 2004
- SOIL BORING ADVANCED BY GEOINSIGHT, AUGUST 2004
- MONITORING WELL INSTALLED BY GEI, MAY 2006
- DRIVEN POINT MONITORING WELL INSTALLED BY MADEP, MAY 2007
- MONITORING WELL INSTALLED PREVIOUSLY, DATE UNKNOWN
- PREVIOUSLY INSTALLED IRRIGATION WELL
- 138 ROOM NUMBER AT CAPUANO SCHOOL
- BOUNDARY OF COMMUNITY GARDENS
- 84 STREET ADDRESS
- MBTA = MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

LABORATORY DATA TABLE NOTES

- CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER LITER.
- CONCENTRATIONS OF PCE AND TCE ARE SHOWN FOR EACH WELL. CONCENTRATIONS OF RELATED CHLORINATED COMPOUNDS ARE ALSO SHOWN WHERE DETECTED.
- PCE = TETRACHLOROETHYLENE.
- TCE = TRICHLOROETHYLENE.
- DCA,1,1 = DICHLOROETHANE,1,1-.
- DCE,1,1 = DICHLOROETHYLENE,1,1-.
- DCE,CIS-1,2 = DICHLOROETHYLENE, CIS-1,2-.
- TCA 1,1,1 = TRICHLOROETHANE,1,1,1-.
- DCE, TRANS, 1,2 = DICHLOROETHENE, TRANS, 1,2-.
- < = THE ANALYTE WAS NOT DETECTED AT A CONCENTRATION ABOVE THE REPORTING LIMIT.
- J = THE RESULT IS BELOW LABORATORY REPORTING LIMIT AND IS ESTIMATED.
- J+ = THE RESULT IS ESTIMATEDBASED ON DATA VALIDATION.
- VALUES IN PARENTHESES ADJACENT TO THE WELL NAME REPRESENT THE SCREENED INTERVAL OF THE WELL IN FEET BELOW GROUND SURFACE.

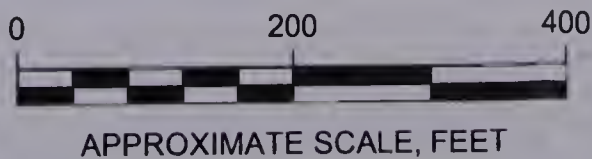
GENERAL NOTES

- HORIZONTAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN DATUM OF 1983.
- STREET AND PROPERTY LINES BASED ON SOMERVILLE ASSESSORS' MAPS AND ARE BEST FIT RELATIVE TO THE LOCATION OF THE 50 TUFTS STREET BUILDING.
- CAPUANO CENTER BUILDING IS BASED ON DRAWING A0.2 FROM THE ARCHITECTURAL BID SET OF "THE EDGERTY EARLY CHILDHOOD DEVELOPMENT CENTER" BY HMFH ARCHITECTS, INC., DATED AUGUST 10, 2001.
- MONITORING WELL LOCATIONS AND ELEVATIONS, AND CAPUANO CENTER COMMUNITY GARDEN LOCATIONS WERE ESTABLISHED BY ON THE GROUND SURVEYS BY BSC GROUP, INC.
- GEI OBSERVED ABANDONMENT OF SH-MW1 AND SH-1 THROUGH SH-5 IN 2007.

MW117D (60-70)	7/19/07	10/11/07	1/15/08	4/16/08	7/16/08	10/21/08	1/13/09
PCE	0.54 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TCE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

MW121D (32-47)	10/22/07	1/15/08	4/17/08	7/14/08	7/14/08 (FD)	10/22/08	10/22/08 (FD)	1/12/09	1/12/09 (FD)
DCA, 1,1-	46.3	55.3	46.6	37.2	38.1	36.1	34.2	38.2	38.3
DCE, cis-1,2-	3.9	11.8	6.4	21.8	22.6	83.7	41.2	134	138
DCE, 1,1-	13.2	< 1.0	16.7	12.8	12.6	12.9	8.4	14.0	14.2
DCE, trans-1,2	< 1.0	0.70 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
PCE	182	258	177	157	154	148	97.7	112	114
TCA, 1,1,1-	1.2	1.3	1.2	1.1	1	4.9	4.6	0.87 J	0.86 J
TCE	59.6	136	68.8	71	72	48.3	69.0	36.5	36.3
Vinyl Chloride	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.32 J	0.31 J

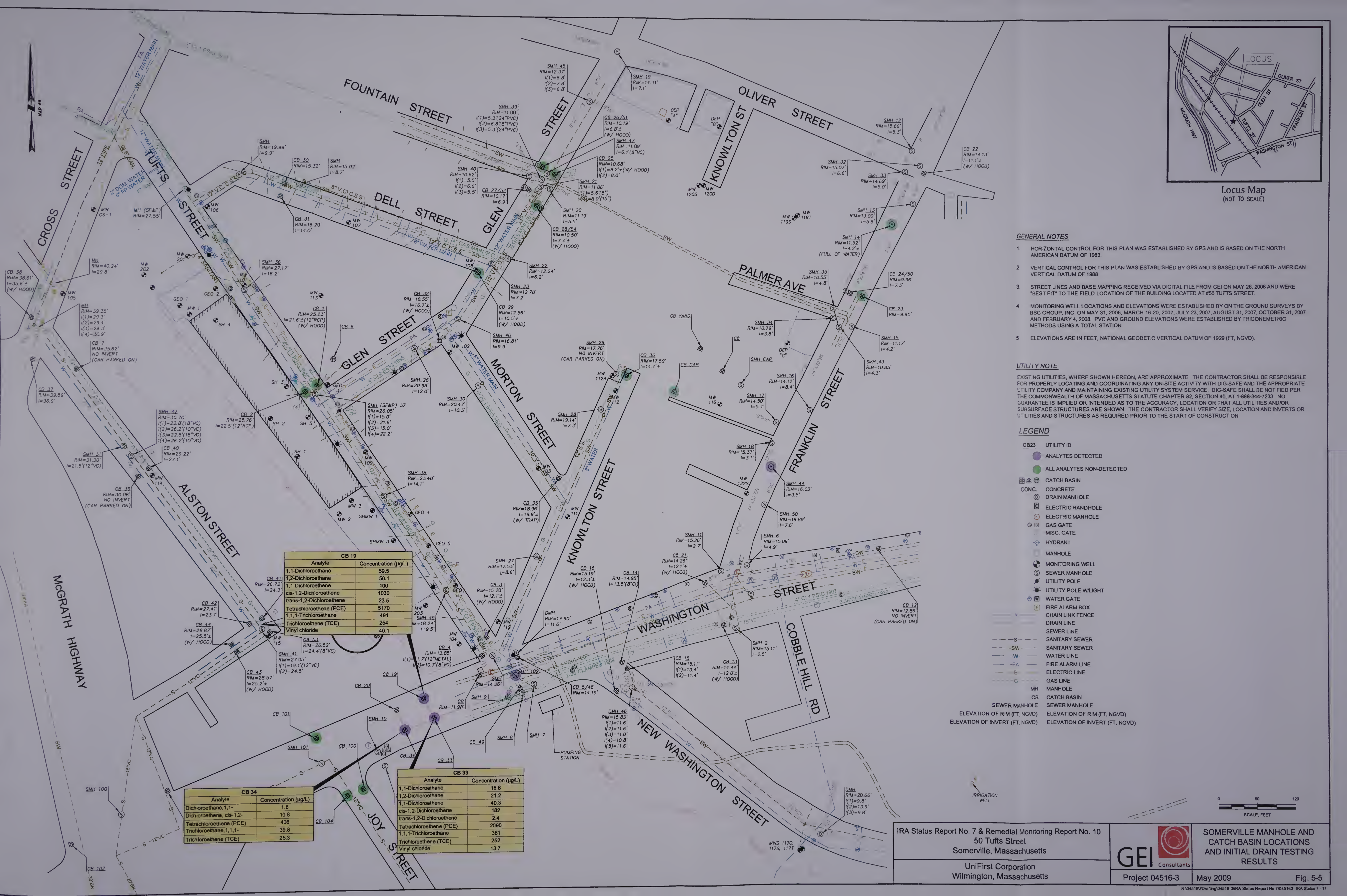
MW118D (70-80)	7/20/07	8/30/07	10/11/07	1/16/08	4/16/08	7/16/08	10/21/08	1/14/09
DCA, 1,1-	20.3	21.4	31.2	31.7	33.3	34.3	22.8	26.0
DCE, cis-1,2-	0.55 J	< 1.0	< 1.0	< 1.0	< 1.0	0.96 J	< 1.0	< 1.0
PCE	7.0	8.4	8.2	6.1	5.7	7.1	2.1	1.2
TCE	1.2	3.9	1.8	0.94 J	1.0	1.9	< 1.0	1.9
Vinyl Chloride	< 1.0	2.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0



IRA Status Report No. 7 & Remedial Monitoring Report No. 10
50 Tufts Street
Somerville, Massachusetts
UniFirst Corporation
Wilmington, Massachusetts



BEDROCK
GROUNDWATER CHEMICAL
TESTING RESULTS



Locus Map
(NOT TO SCALE)

GENERAL NOTES

- 1. HORIZONTAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN DATUM OF 1983.
- 2. VERTICAL CONTROL FOR THIS PLAN WAS ESTABLISHED BY GPS AND IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
- 3. STREET LINES AND BASE MAPPING RECEIVED VIA DIGITAL FILE FROM GEI ON MAY 26, 2006 AND WERE "BEST FIT" TO THE FIELD LOCATION OF THE BUILDING LOCATED AT #50 TUFTS STREET.
- 4. MONITORING WELL LOCATIONS AND ELEVATIONS WERE ESTABLISHED BY ON THE GROUND SURVEYS BY BSC GROUP, INC. ON MAY 31, 2006, MARCH 16-20, 2007, JULY 23, 2007, AUGUST 31, 2007, OCTOBER 31, 2007 AND FEBRUARY 4, 2008. PVC AND GROUND ELEVATIONS WERE ESTABLISHED BY TRIGONOMETRIC METHODS USING A TOTAL STATION.
- 5. ELEVATIONS ARE IN FEET, NATIONAL GEODETIC VERTICAL DATUM OF 1929 (FT, NGVD).

UTILITY NOTE

EXISTING UTILITIES, WHERE SHOWN HEREON, ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY LOCATING AND COORDINATING ANY ON-SITE ACTIVITY WITH DIG-SAFE AND THE APPROPRIATE UTILITY COMPANY AND MAINTAINING EXISTING UTILITY SYSTEM SERVICE. DIG-SAFE SHALL BE NOTIFIED PER THE COMMONWEALTH OF MASSACHUSETTS STATUTE CHAPTER 82, SECTION 40, AT 1-888-344-7233. NO GUARANTEE IS IMPLIED OR INTENDED AS TO THE ACCURACY, LOCATION OR THAT ALL UTILITIES AND/OR SUBSURFACE STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL VERIFY SIZE, LOCATION AND INVERTS OR UTILITIES AND STRUCTURES AS REQUIRED PRIOR TO THE START OF CONSTRUCTION.

LEGEND

- CB23 UTILITY ID
- ANALYTES DETECTED
- ALL ANALYTES NON-DETECTED
- CATCH BASIN
- CONC. CONCRETE
- DRAIN MANHOLE
- ELECTRIC HANDHOLE
- ELECTRIC MANHOLE
- GAS GATE
- MISC. GATE
- HYDRANT
- MANHOLE
- MONITORING WELL
- SEWER MANHOLE
- UTILITY POLE
- UTILITY POLE W/LIGHT
- WATER GATE
- FIRE ALARM BOX
- CHAIN LINK FENCE
- DRAIN LINE
- SEWER LINE
- SANITARY SEWER
- SANITARY SEWER
- WATER LINE
- FIRE ALARM LINE
- ELECTRIC LINE
- GAS LINE
- MANHOLE
- CATCH BASIN
- SEWER MANHOLE
- SEWER MANHOLE
- ELEVATION OF RIM (FT, NGVD)
- ELEVATION OF RIM (FT, NGVD)
- ELEVATION OF INVERT (FT, NGVD)
- ELEVATION OF INVERT (FT, NGVD)

CB 19	
Analyte	Concentration (µg/L)
1,1-Dichloroethane	59.5
1,2-Dichloroethane	50.1
1,1-Dichloroethene	100
cis-1,2-Dichloroethene	1030
trans-1,2-Dichloroethene	23.5
Tetrachloroethene (PCE)	5170
1,1,1-Trichloroethane	491
Trichloroethene (TCE)	254
Vinyl chloride	40.1

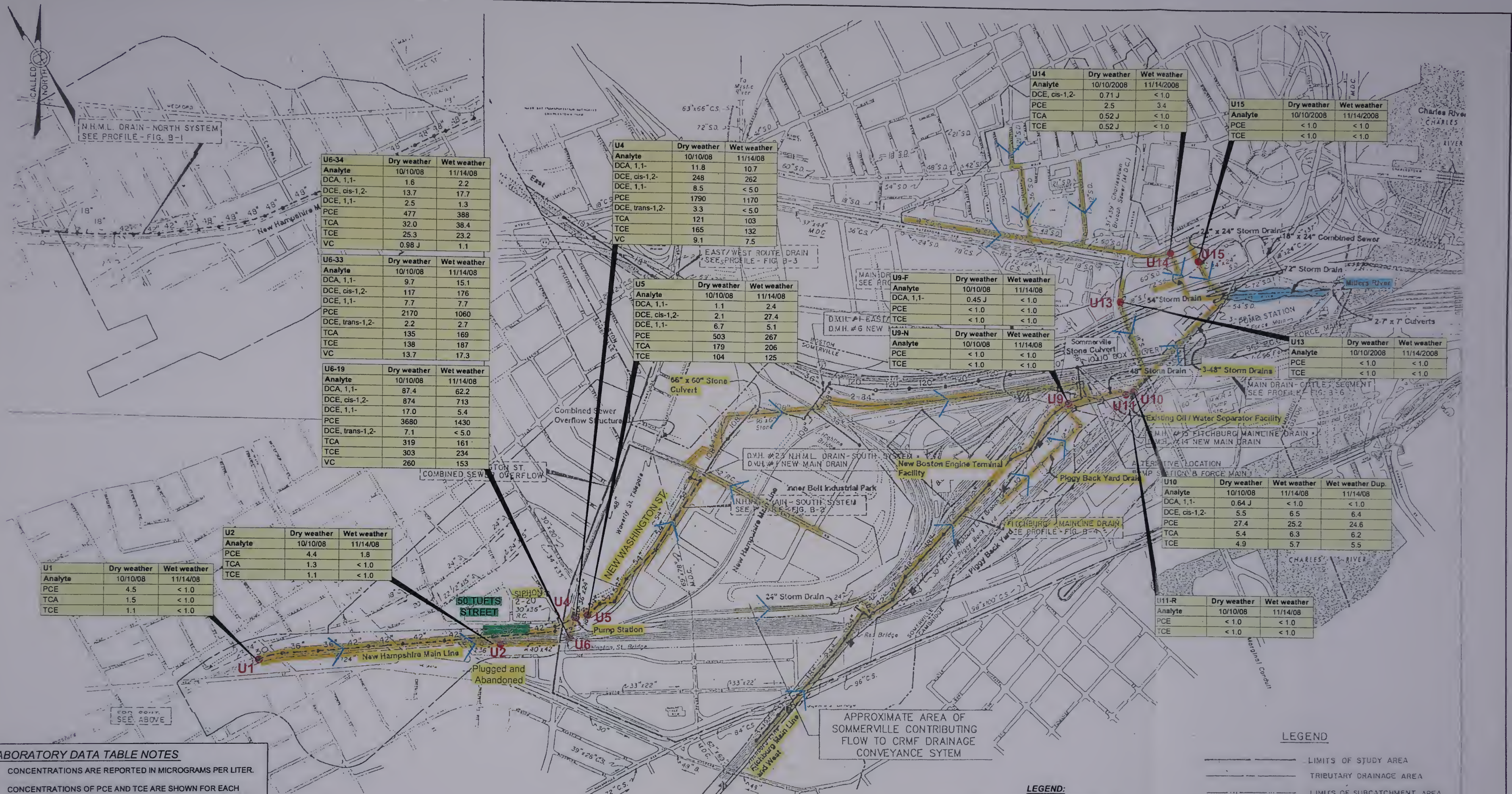
CB 34	
Analyte	Concentration (µg/L)
Dichloroethane, 1,1-	1.6
Dichloroethene, cis-1,2-	10.8
Tetrachloroethene (PCE)	406
Trichloroethane, 1,1,1-	39.8
Trichloroethene (TCE)	25.3

CB 33	
Analyte	Concentration (µg/L)
1,1-Dichloroethane	16.8
1,2-Dichloroethane	21.2
1,1-Dichloroethene	40.3
cis-1,2-Dichloroethene	182
trans-1,2-Dichloroethene	2.4
Tetrachloroethene (PCE)	2090
1,1,1-Trichloroethane	381
Trichloroethene (TCE)	252
Vinyl chloride	13.7

IRA Status Report No. 7 & Remedial Monitoring Report No. 10
50 Tufts Street
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UniFirst Corporation
Wilmington, Massachusetts

GEI Consultants
Project 04516-3
May 2009

SOMERVILLE MANHOLE AND CATCH BASIN LOCATIONS AND INITIAL DRAIN TESTING RESULTS
Fig. 5-5





Geotechnical
Environmental and
Water Resources
Engineering

RNT 3-23246

Volume 2: Appendices

**Immediate Response Action Status
Report No. 7 and Remedial
Monitoring Report No. 10**

50 Tufts Street, Somerville, Massachusetts

Submitted to:

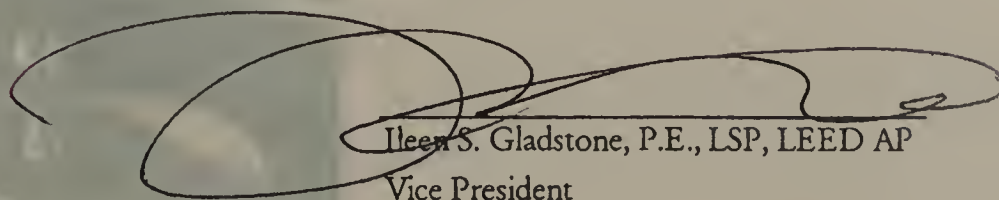
UniFirst Corporation
68 Jonspin Road
Wilmington, MA 01887

Submitted by:

GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801
781.721.4000

May 11, 2009

Project 04516



Ileen S. Gladstone, P.E., LSP, LEED AP
Vice President



Geotechnical
Environmental
Water Resources
Ecological



Appendix A

DEP Transmittal Forms BWSC-105, BWSC-105A, and BWSC-105B and e-DEP Transmittal Receipts

BWSC-105 IRA Transmittal Form

IRA Remedial Monitoring Report Transmittal Forms:

- BWSC-105A 1 of 3 (Capuano)
- BWSC-105B 1 of 3 (Capuano)
- BWSC-105A 2 of 3 (Residences)
- BWSC-105A 3 of 3 (50 Tufts-SSDS / SVE)
- BWSC-105B 3 of 3 (50 Tufts-SSDS / SVE)



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC105

**IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL
FORM** Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number

3 - 23246

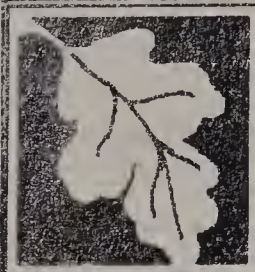
A. RELEASE OR THREAT OF RELEASE LOCATION:

1. Release Name/Location Aid: **50 TUFTS ST & PROP ACROSS THE ST**
2. Street Address: **50 TUFTS ST**
3. City/Town: **SOMERVILLE** 4. ZIP Code: **02145-4129**
5. UTM Coordinates: a. UTM N: **4694322** b. UTM E: **328049**
- ☐ 6. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.
☐ a. Tier IA ☐ b. Tier IB ☒ c. Tier IC ☐ d. Tier II
- ☐ 7. Check here if this location is Adequately Regulated, pursuant to 310 CMR 40.0110-0114. Specify Program (check one):
☐ a. CERCLA ☐ b. HSWA Corrective Action ☐ c. Solid Waste Management
☐ d. RCRA State Program (21C Facilities)

B. THIS FORM IS BEING USED TO: (check all that apply)

1. List Submittal Date of Initial IRA Written Plan (if previously submitted): **01/09/2006**
(mm/dd/yyyy)
- ☐ 2. Submit an **Initial IRA Plan**.
- ☐ 3. Submit a **Modified IRA Plan** of a previously submitted written IRA Plan.
- ☐ 4. Submit an **Imminent Hazard Evaluation**. (check one)
☐ a. An Imminent Hazard exists in connection with this Release or Threat of Release.
☐ b. An Imminent Hazard does not exist in connection with this Release or Threat of Release.
☐ c. It is unknown whether an Imminent Hazard exists in connection with this Release or Threat of Release, and further assessment activities will be undertaken.
☐ d. It is unknown whether an Imminent Hazard exists in connection with this Release or Threat of Release. However, response actions will address those conditions that could pose an Imminent Hazard.
- ☐ 5. Submit a request to **Terminate an Active Remedial System or Response Action(s) Taken to Address an Imminent Hazard**.
- ☒ 6. Submit an **IRA Status Report**.
- ☒ 7. Submit a **Remedial Monitoring Report**. (This report can only be submitted through eDEP.)
a. Type of Report: (check one) ☐ i. Initial Report ☒ ii. Interim Report ☐ iii. Final Report
b. Frequency of Submittal: (check all that apply)
☐ i. A Remedial Monitoring Report(s) submitted monthly to address an Imminent Hazard.
☐ ii. A Remedial Monitoring Report(s) submitted monthly to address a Condition of Substantial Release Migration.
☒ iii. A Remedial Monitoring Report(s) submitted concurrent with a IRA Status Report.
c. Number of Remedial Systems and/or Monitoring Programs: **3**

A separate BWSC105A, IRA Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC105

IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL
FORM Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number

3

-

23246

B. THIS FORM IS BEING USED TO (cont.): (check all that apply)

☐ 8. Submit an IRA Completion Statement.

☐ a. Check here if future response actions addressing this Release or Threat of Release notification condition will be conducted as part of the Response Actions planned or ongoing at a Site that has already been Tier Classified under a different Release Tracking Number (RTN). When linking RTNs, rescoring via the NRS is required if there is a reasonable likelihood that the addition of the new RTN(s) would change the classification of the site.

b. Provide Release Tracking Number of Tier Classified Site (Primary RTN):

☐ -

These additional response actions must occur according to the deadlines applicable to the Primary RTN. Use the Primary RTN when making all future submittals for the site unless specifically relating to this Immediate Response Action.

☐ 9. Submit a Revised IRA Completion Statement.

(All sections of this transmittal form must be filled out unless otherwise noted above)

C. RELEASE OR THREAT OF RELEASE CONDITIONS THAT WARRANT IRA:

1. Identify Media Impacted and Receptors Affected: (check all that apply)

- ☒ a. Air ☒ b. Basement ☒ c. Critical Exposure Pathway ☒ d. Groundwater ☒ e. Residence
☐ f. Paved Surface ☐ g. Private Well ☐ h. Public Water Supply ☒ i. School ☐ j. Sediments
☐ k. Soil ☐ l. Storm Drain ☐ m. Surface Water ☐ n. Unknown ☐ o. Wetland ☐ p. Zone 2
☐ q. Others Specify:

2. Identify Oils and Hazardous Materials Released: (check all that apply)

- ☐ a. Oils ☒ b. Chlorinated Solvents ☐ c. Heavy Metals
☐ d. Others Specify:

D. DESCRIPTION OF RESPONSE ACTIONS: (check all that apply, for volumes list cumulative amounts)

- | | |
|--|---|
| <input type="checkbox"/> 1. Assessment and/or Monitoring Only | <input type="checkbox"/> 2. Temporary Covers or Caps |
| <input type="checkbox"/> 3. Deployment of Absorbent or Containment Materials | <input type="checkbox"/> 4. Temporary Water Supplies |
| <input type="checkbox"/> 5. Structure Venting System | <input type="checkbox"/> 6. Temporary Evacuation or Relocation of Residents |
| <input type="checkbox"/> 7. Product or NAPL Recovery | <input type="checkbox"/> 8. Fencing and Sign Posting |
| <input type="checkbox"/> 9. Groundwater Treatment Systems | <input checked="" type="checkbox"/> 10. Soil Vapor Extraction |
| <input type="checkbox"/> 11. Bioremediation | <input type="checkbox"/> 12. Air Sparging |



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D. DESCRIPTION OF RESPONSE ACTIONS (cont.): (check all that apply, for volumes list cumulative amounts)

☐ 13. Excavation of Contaminated Soils

☐ a. Re-use, Recycling or Treatment

☐ i. On Site

Estimated volume in cubic yards

☐ ii. Off Site

Estimated volume in cubic yards

ii.a. Receiving Facility:

Town:

State:

ii.b. Receiving Facility:

Town:

State:

iii. Describe:

☐ b. Store

☐ i. On Site

Estimated volume in cubic yards

☐ ii. Off Site

Estimated volume in cubic yards

ii.a. Receiving Facility:

Town:

State:

ii.b. Receiving Facility:

Town:

State:

☐ c. Landfill

☐ i. Cover

Estimated volume in cubic yards

Receiving Facility:

Town:

State:

☐ ii. Disposal

Estimated volume in cubic yards

Receiving Facility:

Town:

State:

☒ 14. Removal of Drums, Tanks or Containers:

a. Describe Quantity and Amount:

13 - 55-GALLON DRUMS OF SOLIDS

b. Receiving Facility:

GENERAL CHEMICAL

Town:

FRAMINGHAM

State:

MA

c. Receiving Facility:

Town:

State:

☒ 15. Removal of Other Contaminated Media:

a. Specify Type and Volume:

SPENT GRANULAR ACTIVATED CARBON - 10,159 LBS

b. Receiving Facility:

RINECO

Town:

BENTON

State:

AR

c. Receiving Facility:

Town:

State:

☒ 16. Other Response Actions:

Describe:

EXPOSURE PATHWAY ELIMINATION MEASURES (EPEMS)/TEMP AIR PURIFIERS AND/OR SSDS

☐ 17. Use of Innovative Technologies:

Describe:



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E. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> if Section B of this form indicates that an **Immediate Response Action Plan** is being submitted, the response action(s) that is(are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is(are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that an **Imminent Hazard Evaluation** is being submitted, this Imminent Hazard Evaluation was developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and the assessment activity(ies) undertaken to support this Imminent Hazard Evaluation comply(ies) with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000;

> if Section B of this form indicates that an **Immediate Response Action Status Report** and/or a **Remedial Monitoring Report** is(are) being submitted, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that an **Immediate Response Action Completion Statement** or a request to **Terminate an Active Remedial System or Response Action(s) Taken to Address an Imminent Hazard** is being submitted, the response action(s) that is(are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is(are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: 9719

2. First Name: ILEEN S

3. Last Name: GLADSTONE

4. Telephone: (781) 721-4012

5. Ext.:

6. FAX:

7. Signature: ILEEN S GLADSTONE

8. Date: 05/11/2009

(mm/dd/yyyy)

9. LSP Stamp:





IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL FORM
Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number

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F. PERSON UNDERTAKING IRA:

1. Check all that apply: ☐ a. change in contact name ☐ b. change of address ☐ c. change in the person undertaking response actions

2. Name of Organization: **UNIFIRST CORPORATION**

3. Contact First Name: **JOHN R** 4. Last Name: **BADEY**

5. Street: **68 JONSPIN RD** 6. Title: **VICE PRESIDENT**

7. City/Town: **WILMINGTON** 8. State: **MA** 9. ZIP Code: **01887-1090**

10. Telephone: **(800) 347-7888** 11. Ext.: 12. FAX: **(978) 988-1305**

G. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON UNDERTAKING IRA:

☒ 1. RP or PRP ☐ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter

☒ e. Other RP or PRP Specify: **OTHER PRPS**

☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

☐ 4. Any Other Person Undertaking IRA Specify Relationship:

H. REQUIRED ATTACHMENT AND SUBMITTALS:

☐ 1. Check here if any Remediation Waste, generated as a result of this IRA, will be stored, treated, managed, recycled or reused at the site following submission of the IRA Completion Statement. If this box is checked, you must submit one of the following plans, along with the appropriate transmittal form.

☐ a. A Release Abatement Measure (RAM) Plan (BWSC106) ☐ b. Phase IV Remedy Implementation Plan (BWSC108)

☐ 2. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

☒ 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health were notified of the implementation of an Immediate Response Action taken to control, prevent, abate or eliminate an Imminent Hazard.

☐ 4. Check here to certify that the Chief Municipal Officer and the Local Board of Health were notified of the submittal of a Completion Statement for an Immediate Response Action taken to control, prevent, abate or eliminate an Imminent Hazard.

☐ 5. Check here if any non-updatable information provided on this form is incorrect, e.g. Release Address/Location Aid. Send corrections to the DEP Regional Office.

☒ 6. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.



Massachusetts Department of Environmental Protection
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**IMMEDIATE RESPONSE ACTION (IRA) TRANSMITTAL
FORM** Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number

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I. CERTIFICATION OF PERSON UNDERTAKING IRA:

1. I, **JOHN BADEY**, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: **JOHN BADEY**

Signature

3. Title: **VICE PRESIDENT**

4. For: **UNIFIRST CORPORATION**

(Name of person or entity recorded in Section F)

5. Date: **05/11/2009**

(mm/dd/yyyy)

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section F.

7. Street:

8. City/Town:

9. State:

10. ZIP Code:

11. Telephone:

12. Ext.:

13. FAX:

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO \$10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)

Received by DEP on

5/11/2009 10:37:52 PM



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IRA REMEDIAL MONITORING REPORT

Pursuant to 310 CMR 40.0400 (SUBPART D)

Release Tracking Number

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Remedial System or Monitoring Program: 1 of: 3

A. DESCRIPTION OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM:

1. Type of Active Remedial System or Active Remedial Monitoring Program: (check all that apply)

- ☒ a. Active Remedial System: (check all that apply)
- | | | |
|---|---|--|
| <input type="checkbox"/> i. NAPL Recovery | <input type="checkbox"/> ii. Soil Vapor Extraction/Bioventing | <input type="checkbox"/> iii. Vapor-phase Carbon Adsorption |
| <input type="checkbox"/> iv. Groundwater Recovery | <input type="checkbox"/> v. Dual/Multi-phase Extraction | <input type="checkbox"/> vi. Aqueous-phase Carbon Adsorption |
| <input type="checkbox"/> vii. Air Stripping | <input type="checkbox"/> viii. Sparging/Biosparging | <input type="checkbox"/> ix. Cat/Thermal Oxidation |

☒ x. Other Describe: SUB-SLAB DEPRESSURIZATION SYSTEM

☐ b. Application of Remedial Additives: (check all that apply)

- ☐ i. To the Subsurface ☐ ii. To Groundwater (Injection) ☐ iii. To the Surface

☐ c. Active Remedial Monitoring Program Without the Application of Remedial Additives: (check all that apply; Sections C, D and E are not required; attach supporting information, data, maps and/or sketches needed by checking Section F5)

- ☐ i. Reactive Wall ☐ ii. Natural Attenuation ☐ iii. Other Describe:

2. Mode of Operation: (check one)

- ☒ a. Continuous ☐ b. Intermittent ☐ c. Pulsed ☐ d. One-time Event Only ☐ e. Other:

3. System Effluent/Discharge: (check all that apply)

- ☐ a. Sanitary Sewer/POTW
- ☐ b. Groundwater Re-infiltration/Re-injection: (check one) ☐ i. Downgradient ☐ ii. Upgradient
- ☒ c. Vapor-phase Discharge to Ambient Air: (check one) ☐ i. Off-gas Controls ☒ ii. No Off-gas Controls
- ☐ d. Drinking Water Supply
- ☐ e. Surface Water (including Storm Drains)

☐ f. Other Describe:

B. MONITORING FREQUENCY:

1. Reporting period that is the subject of this submittal: From: 10/01/2008 To: 04/10/2009
(mm/dd/yyyy) (mm/dd/yyyy)

2. Number of monitoring events during the reporting period: (check one)

- ☐ a. System Startup: (if applicable)
- ☐ i. Days 1, 3, 6, and then weekly thereafter, for the first month.

☐ ii. Other Describe:

☒ b. Post-system Startup (after first month) or Monitoring Program:

- ☐ i. Monthly
- ☐ ii. Quarterly

☒ iii. Other Describe: TOTAL VOCs, ~MONTHLY; INDOOR AIR, ~3 TIMES / YR

☐ 3. Check here to certify that the number of required monitoring events were conducted during the reporting period.

C. EFFLUENT/DISCHARGE REGULATION: (check one to indicate how the effluent/discharge limits were established)

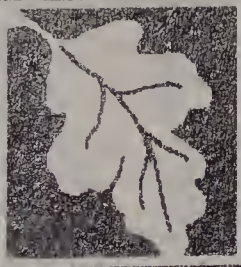
- ☐ 1. NPDES: (check one) ☐ a. Remediation General Permit ☐ b. Individual Permit
- ☐ c. Emergency Exclusion Effective Date of Permit:

(mm/dd/yyyy)

☒ 2. MCP Performance Standard MCP Citations(s): WSC-94-150

☐ 3. DEP Approval Letter Date of Letter: (mm/dd/yyyy)

☐ 4. Other Describe:



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Remedial System or Monitoring Program: 1 of 3

D. WASTEWATER TREATMENT PLANT OPERATOR: (check one)

- ☐ 1. Required due to Remedial Wastewater Treatment Plant in place for more than 30 days.

a. Name: b. Grade:

c. License No.: d. License Exp. Date:
(mm/dd/yyyy)

- ☐ 2. Not Required

- ☒ 3. Not Applicable

E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD:

(check all that apply)

- ☒ 1. The Active Remedial System was functional one or more days during the Reporting Period.

a. Days System was Fully Functional: 191 b. GW Recovered (gals):

c. NAPL Recovered (gals): d. GW Discharged (gals):

e. Avg. Soil Gas Recovery Rate (scfm): 121.00 f. Avg. Sparging Rate (scfm):

- ☐ 2. Remedial Additives: (check all that apply)

- ☐ a. No Remedial Additives applied during the Reporting Period.

- ☐ b. Enhanced Bioremediation Additives applied: (total quantity applied at the site for the current reporting period)

- ☐ i. Nitrogen/Phosphorus:

Name of Additive	Date	Quantity	Units

- ☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

- ☐ iii. Microorganisms:

Name of Additive	Date	Quantity	Units

- ☐ iv. Other:

Name of Additive	Date	Quantity	Units

- ☐ c. Chemical oxidation/reduction additives applied: (total quantity applied at the site for the current reporting period)

- ☐ i. Permanganates:

Name of Additive	Date	Quantity	Units

- ☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

- ☐ iii. Persulfates:

Name of Additive	Date	Quantity	Units

- ☐ iv. Other:

Name of Additive	Date	Quantity	Units



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Remedial System or Monitoring Program: 1 of 3

E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (cont.)
(check all that apply)

- ☐ d. Other additives applied: (total quantity applied at the site for the current reporting period)

Name of Additive	Date	Quantity	Units

Name of Additive	Date	Quantity	Units

- ☐ e. Check here if any additional Remedial Additives were applied. Attach list of additional additives and include Name of Additive, Date Applied, Quantity Applied and Units (in gals. or lbs.)

F. SHUTDOWNS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM: (check all that apply)

- ☐ 1. The Active Remedial System had unscheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Unscheduled Shutdowns: b. Total Number of Days of Unscheduled Shutdowns: c. Reason(s) for Unscheduled Shutdowns:

- ☐ 2. The Active Remedial System had scheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Scheduled Shutdowns: b. Total Number of Days of Scheduled Shutdowns: c. Reason(s) for Scheduled Shutdowns:

- ☐ 3. The Active Remedial System or Active Remedial Monitoring Program was permanently shutdown/discontinued during the Reporting Period.

a. Date of Final System or Monitoring Program Shutdown: (mm/dd/yyyy)

- ☐ b. No Further Effluent Discharges.

- ☐ c. No Further Application of Remedial Additives planned; sufficient monitoring completed to demonstrate compliance with 310 CMR 40.0046.

- ☐ d. No Further Submittals Planned.

- ☐ e. Other: Describe:

G. SUMMARY STATEMENTS: (check all that apply for the current reporting period)

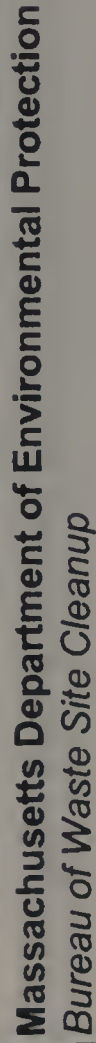
- ☒ 1. All Active Remedial System checks and effluent analyses required by the approved plan and/or permit were performed when applicable.

- ☒ 2. There were no significant problems or prolonged (>25% of reporting period) unscheduled shutdowns of the Active Remedial System.

- ☒ 3. The Active Remedial System or Active Remedial Monitoring Program operated in conformance with the MCP, and all applicable approval conditions and/or permits.

4. Indicate any Operational Problems or Notes:

- ☒ 5. Check here if additional/supporting information, data, maps, and/or sketches are attached to the form.



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Remedial System or Monitoring Program: 1 of: 3

For each Point of Measurement, indicate the highest concentration detected during the reporting period, of each oil, hazardous material and/or remedial additive.

[illegible]☐ Check here if an additional **BWSC10-B**, Effluent/Discharge Concentrations Form, is needed.



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Pursuant to 310 CMR 40.0400 (SUBPART D)

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Remedial System or Monitoring Program: 2 of: 3

A. DESCRIPTION OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM:

1. Type of Active Remedial System or Active Remedial Monitoring Program: (check all that apply)

- ☒ a. Active Remedial System: (check all that apply)
- | | | |
|---|---|--|
| <input type="checkbox"/> i. NAPL Recovery | <input type="checkbox"/> ii. Soil Vapor Extraction/Bioventing | <input type="checkbox"/> iii. Vapor-phase Carbon Adsorption |
| <input type="checkbox"/> iv. Groundwater Recovery | <input type="checkbox"/> v. Dual/Multi-phase Extraction | <input type="checkbox"/> vi. Aqueous-phase Carbon Adsorption |
| <input type="checkbox"/> vii. Air Stripping | <input type="checkbox"/> viii. Sparging/Biosparging | <input type="checkbox"/> ix. Cat/Thermal Oxidation |

☒ x. Other Describe: **SUS-SLAB DEPRESSURIZATION SYSTEM**

☐ b. Application of Remedial Additives: (check all that apply)

- ☐ i. To the Subsurface ☐ ii. To Groundwater (Injection) ☐ iii. To the Surface

☐ c. Active Remedial Monitoring Program Without the Application of Remedial Additives: (check all that apply; Sections C, D and E are not required; attach supporting information, data, maps and/or sketches needed by checking Section F5)

- ☐ i. Reactive Wall ☐ ii. Natural Attenuation ☐ iii. Other Describe:

2. Mode of Operation: (check one)

- ☒ a. Continuous ☐ b. Intermittent ☐ c. Pulsed ☐ d. One-time Event Only ☐ e. Other:

3. System Effluent/Discharge: (check all that apply)

- ☐ a. Sanitary Sewer/POTW
- ☐ b. Groundwater Re-infiltration/Re-injection: (check one) ☐ i. Downgradient ☐ ii. Upgradient
- ☒ c. Vapor-phase Discharge to Ambient Air: (check one) ☐ i. Off-gas Controls ☒ ii. No Off-gas Controls
- ☐ d. Drinking Water Supply
- ☐ e. Surface Water (including Storm Drains)

☐ f. Other Describe:

B. MONITORING FREQUENCY:

1. Reporting period that is the subject of this submittal:

From: 10/01/2008

(mm/dd/yyyy)

To: 04/10/2009

(mm/dd/yyyy)

2. Number of monitoring events during the reporting period: (check one)

- ☐ a. System Startup: (if applicable)
- ☐ i. Days 1, 3, 6, and then weekly thereafter, for the first month.

☐ ii. Other Describe:

☒ b. Post-system Startup (after first month) or Monitoring Program:

- ☐ i. Monthly
- ☐ ii. Quarterly

☒ iii. Other Describe: **YEARLY**

☐ 3. Check here to certify that the number of required monitoring events were conducted during the reporting period.

C. EFFLUENT/DISCHARGE REGULATION: (check one to indicate how the effluent/discharge limits were established)

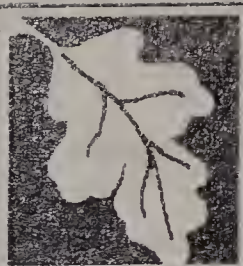
- ☐ 1. NPDES: (check one) ☐ a. Remediation General Permit ☐ b. Individual Permit
- ☐ c. Emergency Exclusion Effective Date of Permit:

(mm/dd/yyyy)

☒ 2. MCP Performance Standard MCP Citations(s): **WSC-94-150**

☐ 3. DEP Approval Letter Date of Letter: (mm/dd/yyyy)

☐ 4. Other Describe:



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Remedial System or Monitoring Program: 2 of 3

D. WASTEWATER TREATMENT PLANT OPERATOR: (check one)

- ☐ 1. Required due to Remedial Wastewater Treatment Plant in place for more than 30 days.

a. Name: b. Grade:

c. License No.: d. License Exp. Date:

(mm/dd/yyyy)

- ☐ 2. Not Required

- ☒ 3. Not Applicable

E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD:

(check all that apply)

- ☒ 1. The Active Remedial System was functional one or more days during the Reporting Period.

a. Days System was Fully Functional: 191 b. GW Recovered (gals):

c. NAPL Recovered (gals): d. GW Discharged (gals):

e. Avg. Soil Gas Recovery Rate (scfm): 95.00 f. Avg. Sparging Rate (scfm):

- ☐ 2. Remedial Additives: (check all that apply)

- ☐ a. No Remedial Additives applied during the Reporting Period.

- ☐ b. Enhanced Bioremediation Additives applied: (total quantity applied at the site for the current reporting period)

- ☐ i. Nitrogen/Phosphorus:

Name of Additive	Date	Quantity	Units

- ☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

- ☐ iii. Microorganisms:

Name of Additive	Date	Quantity	Units

- ☐ iv. Other:

Name of Additive	Date	Quantity	Units

- ☐ c. Chemical oxidation/reduction additives applied: (total quantity applied at the site for the current reporting period)

- ☐ i. Permanganates:

Name of Additive	Date	Quantity	Units

- ☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

- ☐ iii. Persulfates:

Name of Additive	Date	Quantity	Units

- ☐ iv. Other:

Name of Additive	Date	Quantity	Units



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Remedial System or Monitoring Program: 2 of: 3

E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (cont.)

(check all that apply)

☐ d. Other additives applied: (total quantity applied at the site for the current reporting period)

Name of Additive	Date	Quantity	Units

Name of Additive	Date	Quantity	Units

☐ e. Check here if any additional Remedial Additives were applied. Attach list of additional additives and include Name of Additive, Date Applied, Quantity Applied and Units (in gals. or lbs.)

F. SHUTDOWNS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM: (check all that apply)

☐ 1. The Active Remedial System had unscheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Unscheduled Shutdowns: b. Total Number of Days of Unscheduled Shutdowns:

c. Reason(s) for Unscheduled Shutdowns:

☐ 2. The Active Remedial System had scheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Scheduled Shutdowns: b. Total Number of Days of Scheduled Shutdowns:

c. Reason(s) for Scheduled Shutdowns:

☐ 3. The Active Remedial System or Active Remedial Monitoring Program was permanently shutdown/discontinued during the Reporting Period.

a. Date of Final System or Monitoring Program Shutdown: (mm/dd/yyyy)

☐ b. No Further Effluent Discharges.

☐ c. No Further Application of Remedial Additives planned; sufficient monitoring completed to demonstrate compliance with 310 CMR 40.0046.

☐ d. No Further Submittals Planned.

☐ e. Other: Describe:

G. SUMMARY STATEMENTS: (check all that apply for the current reporting period)

☒ 1. All Active Remedial System checks and effluent analyses required by the approved plan and/or permit were performed when applicable.

☒ 2. There were no significant problems or prolonged (>25% of reporting period) unscheduled shutdowns of the Active Remedial System.

☒ 3. The Active Remedial System or Active Remedial Monitoring Program operated in conformance with the MCP, and all applicable approval conditions and/or permits.

4. Indicate any Operational Problems or Notes:

☐ 5. Check here if additional/supporting Information, data, maps, and/or sketches are attached to the form.



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IRA REMEDIAL MONITORING REPORT

Pursuant to 310 CMR 40.0400 (SUBPART D)

Release Tracking Number

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23246

Remedial System or Monitoring Program: 3 of 3

A. DESCRIPTION OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM:

1. Type of Active Remedial System or Active Remedial Monitoring Program: (check all that apply)

- ☒ a. Active Remedial System: (check all that apply)
- | | | |
|---|--|--|
| <input type="checkbox"/> i. NAPL Recovery | <input checked="" type="checkbox"/> ii. Soil Vapor Extraction/Bioventing | <input type="checkbox"/> iii. Vapor-phase Carbon Adsorption |
| <input type="checkbox"/> iv. Groundwater Recovery | <input type="checkbox"/> v. Dual/Multi-phase Extraction | <input type="checkbox"/> vi. Aqueous-phase Carbon Adsorption |
| <input type="checkbox"/> vii. Air Stripping | <input type="checkbox"/> viii. Sparging/Biosparging | <input type="checkbox"/> ix. Cat/Thermal Oxidation |

☒ x. Other Describe: SUB-SLAB DEPRESSURIZATION SYSTEM

☐ b. Application of Remedial Additives: (check all that apply)

- ☐ i. To the Subsurface ☐ ii. To Groundwater (Injection) ☐ iii. To the Surface

☐ c. Active Remedial Monitoring Program Without the Application of Remedial Additives: (check all that apply; Sections C, D and E are not required; attach supporting information, data, maps and/or sketches needed by checking Section F5)

- ☐ i. Reactive Wall ☐ ii. Natural Attenuation ☐ iii. Other Describe:

2. Mode of Operation: (check one)

- ☒ a. Continuous ☐ b. Intermittent ☐ c. Pulsed ☐ d. One-time Event Only ☐ e. Other:

3. System Effluent/Discharge: (check all that apply)

- ☐ a. Sanitary Sewer/POTW
- ☐ b. Groundwater Re-infiltration/Re-injection: (check one) ☐ i. Downgradient ☐ ii. Upgradient
- ☒ c. Vapor-phase Discharge to Ambient Air: (check one) ☒ i. Off-gas Controls ☐ ii. No Off-gas Controls
- ☐ d. Drinking Water Supply
- ☐ e. Surface Water (including Storm Drains)

☐ f. Other Describe:

B. MONITORING FREQUENCY:

1. Reporting period that is the subject of this submittal:

From:

10/01/2008

(mm/dd/yyyy)

To:

04/10/2009

(mm/dd/yyyy)

2. Number of monitoring events during the reporting period: (check one)

- ☐ a. System Startup: (if applicable)
- ☐ i. Days 1, 3, 6, and then weekly thereafter, for the first month.
- ☐ ii. Other Describe:

☒ b. Post-system Startup (after first month) or Monitoring Program:

- ☐ i. Monthly
- ☐ ii. Quarterly

☒ iii. Other Describe: TOTAL VOCs, MONTHLY; INDOOR AIR, YEARLY

☐ 3. Check here to certify that the number of required monitoring events were conducted during the reporting period.

C. EFFLUENT/DISCHARGE REGULATION: (check one to indicate how the effluent/discharge limits were established)

☐ 1. NPDES: (check one)

- ☐ a. Remediation General Permit ☐ b. Individual Permit
- ☐ c. Emergency Exclusion

Effective Date of Permit:

(mm/dd/yyyy)

☒ 2. MCP Performance Standard MCP Citations(s): WSC-94-150

☐ 3. DEP Approval Letter Date of Letter:

(mm/dd/yyyy)

☐ 4. Other Describe:



Massachusetts Department of Environmental Protection
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IRA REMEDIAL MONITORING REPORT

Pursuant to 310 CMR 40.0400 (SUBPART D)

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D. WASTEWATER TREATMENT PLANT OPERATOR: (check one)

- ☐ 1. Required due to Remedial Wastewater Treatment Plant in place for more than 30 days.

a. Name:

b. Grade:

c. License No.:

d. License Exp. Date:

(mm/dd/yyyy)

- ☐ 2. Not Required

- ☒ 3. Not Applicable

E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD:

(check all that apply)

- ☒ 1. The Active Remedial System was functional one or more days during the Reporting Period.

a. Days System was Fully Functional: 191

b. GW Recovered (gals):

c. NAPL Recovered (gals):

d. GW Discharged (gals):

e. Avg. Soil Gas Recovery Rate (scfm): 355.00

f. Avg. Sparging Rate (scfm):

- ☐ 2. Remedial Additives: (check all that apply)

- ☐ a. No Remedial Additives applied during the Reporting Period.

- ☐ b. Enhanced Bioremediation Additives applied: (total quantity applied at the site for the current reporting period)

- ☐ i. Nitrogen/Phosphorus:

Name of Additive	Date	Quantity	Units

- ☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

- ☐ iii. Microorganisms:

Name of Additive	Date	Quantity	Units

- ☐ iv. Other:

Name of Additive	Date	Quantity	Units

- ☐ c. Chemical oxidation/reduction additives applied: (total quantity applied at the site for the current reporting period)

- ☐ i. Permanganates:

Name of Additive	Date	Quantity	Units

- ☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

- ☐ iii. Persulfates:

Name of Additive	Date	Quantity	Units

- ☐ iv. Other:

Name of Additive	Date	Quantity	Units



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E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (cont.)
(check all that apply)

☐ d. Other additives applied: (total quantity applied at the site for the current reporting period)

Name of Additive	Date	Quantity	Units

Name of Additive	Date	Quantity	Units

☐ e. Check here if any additional Remedial Additives were applied. Attach list of additional additives and include Name of Additive, Date Applied, Quantity Applied and Units (in gals. or lbs.)

F. SHUTDOWNS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM: (check all that apply)

☐ 1. The Active Remedial System had unscheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Unscheduled Shutdowns: b. Total Number of Days of Unscheduled Shutdowns:

c. Reason(s) for Unscheduled Shutdowns:

☒ 2. The Active Remedial System had scheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Scheduled Shutdowns: 3 b. Total Number of Days of Scheduled Shutdowns: 0

c. Reason(s) for Scheduled Shutdowns: CARBON CHANGE-OUT ~ 1 HOUR

☐ 3. The Active Remedial System or Active Remedial Monitoring Program was permanently shutdown/discontinued during the Reporting Period.

a. Date of Final System or Monitoring Program Shutdown:
(mm/dd/yyyy)

☐ b. No Further Effluent Discharges.

☐ c. No Further Application of Remedial Additives planned; sufficient monitoring completed to demonstrate compliance with 310 CMR 40.0046.

☐ d. No Further Submittals Planned.

☐ e. Other: Describe:

G. SUMMARY STATEMENTS: (check all that apply for the current reporting period)

☒ 1. All Active Remedial System checks and effluent analyses required by the approved plan and/or permit were performed when applicable.

☒ 2. There were no significant problems or prolonged (>25% of reporting period) unscheduled shutdowns of the Active Remedial System.

☒ 3. The Active Remedial System or Active Remedial Monitoring Program operated in conformance with the MCP, and all applicable approval conditions and/or permits.

4. Indicate any Operational Problems or Notes:

☒ 5. Check here if additional/supporting information, data, maps, and/or sketches are attached to the form.



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IRA REMEDIAL MONITORING REPORT
EFFLUENT/DISCHARGE CONCENTRATIONS

Pursuant to 310 CMR (40.0400 (SUBPART D)

Remedial System or Monitoring Program: 3 of: 3

For each Point of Measurement, indicate the highest concentration detected during the reporting period, of each oil, hazardous material and/or remedial additive.

Point of Measurement	Date (mm/dd/yyyy)	Contaminant, Measurement and/or Indicator Parameter	Influent Concentration (where applicable)	Midpoint Concentration (where applicable)	(check one)		Check here, if ND/BDL	Permissible Concentration	Units	Within Permissible Limits? (Y/N)
					<input checked="" type="checkbox"/> Discharge	<input type="checkbox"/> Groundwater Concentration				
SSDS	10/14/2008	TOTAL VOCS	46.400				<input checked="" type="checkbox"/>	2.300	PPM	Yes
SSDS	11/05/2008	TOTAL VOCS	50.100		2.700		<input type="checkbox"/>	2.500	PPM	N
SSDS	11/06/2008	TOTAL VOCS	28.700				<input checked="" type="checkbox"/>	1.400	PPM	Yes
SSDS	11/14/2008	TOTAL VOCS	44.900				<input checked="" type="checkbox"/>	2.200	PPM	Yes
SSDS	11/17/2008	TOTAL VOCS	45.200				<input checked="" type="checkbox"/>	2.300	PPM	Yes
SSDS	11/25/2008	TOTAL VOCS	31.700				<input checked="" type="checkbox"/>	1.600	PPM	Yes
SSDS	12/05/2008	TOTAL VOCS	23.600				<input checked="" type="checkbox"/>	1.200	PPM	Yes
SSDS	12/11/2008	TOTAL VOCS	24.700				<input checked="" type="checkbox"/>	1.200	PPM	Yes
SSDS	12/18/2008	TOTAL VOCS	16.100				<input checked="" type="checkbox"/>	0.800	PPM	Yes
SSDS	12/24/2008	TOTAL VOCS	17.100				<input checked="" type="checkbox"/>	0.900	PPM	Yes
SSDS	12/30/2008	TOTAL VOCS	2.800				<input checked="" type="checkbox"/>	0.100	PPM	Yes
SSDS	01/16/2009	TOTAL VOCS	16.600				<input checked="" type="checkbox"/>	0.800	PPM	Yes
SSDS	02/13/2009	TOTAL VOCS	15.300				<input checked="" type="checkbox"/>	0.800	PPM	Yes
SSDS	02/20/2009	TOTAL VOCS	16.100				<input checked="" type="checkbox"/>	0.800	PPM	Yes
SSDS	03/17/2009	TOTAL VOCS	18.300				<input checked="" type="checkbox"/>	0.900	PPM	Yes
							<input type="checkbox"/>			
							<input type="checkbox"/>			
							<input type="checkbox"/>		MG/KG	
							<input type="checkbox"/>			
							<input type="checkbox"/>			

☐ Check here if an additional BWSC105B, Effluent/Discharge Concentrations Form, is needed.

From: <eDEPConfirmation@massmail.state.ma.us>
To: <igladstone@geiconsultants.com>
CC: <jroman@geiconsultants.com>
Date: 5/12/2009 8:41 AM
Subject: eDEP Submittal Confirmation for DEP Transaction ID: 240616

Thank you for using eDEP Online Filing from the Massachusetts Department of Environmental Protection. Your transaction is complete and has been submitted to MassDEP.

This email is your receipt for the eDEP Online Filing transaction described below. Please review it and keep a copy for your records.

Please do NOT reply to this message, this email address will not receive messages. For assistance with eDEP Online Filing, please email the DEP Help Desk at DEP.HELP@state.ma.us or call 617-556-1100.

MassDEP is interested in how we can serve you better. To help us make improvements to eDEP, please take a minute to complete our eDEP Online Filing Survey at <http://www.mass.gov/dep/service/compliance/edepsurv.htm>.

To contact MassDEP Programs, please see <http://mass.gov/dep/about/contacts.htm>.

DEP Transaction ID: 240616

Date and Time Submitted: 05/11/2009 10:24:26

Form Name: BWSC105 Immediate Response Action Transmittal Form

RTN: 3-23246

Location: 50 TUFTS ST & PROP ACROSS THE ST

Address: 50 TUFTS ST

SOMERVILLE

021454129

Person Making Submittal

UNIFIRST CORPORATION

JOHN R

BADEY

68 JONSPIN RD

WILMINGTON

MA

018871090

LSP

LSP #: 9719

LSP Name: ILEEN S

GLADSTONE

Person Making Certification

UNIFIRST CORPORATION

John Badey

BWSC Remedial Monitoring Report (test)

BWSC Remedial Monitoring Report (test)

BWSC Remedial Monitoring Report (test)

BWSC Remedial Monitoring Report B()

BWSC Remedial Monitoring Report B()

Ancillary Document Uploaded/Mailed :

BWSC-105 Q.B06 - IRA Status Report 7 RMR 10.pdf

RMR-A G5 Additional Supporting Information - Uploaded (There is no supporting documentation here.pdf)

RMR-A G5 Additional Supporting Information - Uploaded (There is no supporting documentation here.pdf)

EMAIL ID OF THE USER: igladstone@geiconsultants.com

EMAIL ID OF THE OTHER USERS: jroman@geiconsultants.com

MassDEP's Online Filing System

Username: JOSEPH_ROMAN
Nickname: JOSEPH_ROMAN

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Transaction Overview Trans# 240616 ID# 3-23246 BWSC105 Immediate Response Action Transmittal Form

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DEP Transaction ID: 240616

Date and Time Submitted: 5/11/2009 10:37:52 PM

Other Email :

Form Name: BWSC105 Immediate Response Action Transmittal Form

RTN: 3-23246

Location: 50 TUFTS ST & PROP ACROSS THE ST

Address: 50 TUFTS ST, SOMERVILLE, 021454129

Person Making Submittal

UNIFIRST CORPORATION

JOHN R BADEY

68 JONSPIN RD

WILMINGTON, MA 018871090

LSP

LSP #: 9719

LSP Name: ILEEN S GLADSTONE

Person Making Certification

UNIFIRST CORPORATION

John Badey

BWSC Remedial Monitoring Report (test)

BWSC Remedial Monitoring Report (test)

BWSC Remedial Monitoring Report (test)

BWSC Remedial Monitoring Report B()

BWSC Remedial Monitoring Report B()

Ancillary Document Uploaded/Mailed

BWSC-105 Q.B06 - IRA Status Report - Uploaded (IRA Status Report 7 RMR 10.pdf)

RMR-A G5 Additional Supporting Information - Uploaded (There is no supporting documentation here.pdf)

RMR-A G5 Additional Supporting Information - Uploaded (There is no supporting documentation here.pdf)

Immediate Response Action
Status Report No.7 and
Remedial Monitoring Report No.10
Appendices B-O
50 Tufts Street, Somerville, MA

Prepared by
GEI
Consultants

Submitted to:
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Wilmington, MA 01887

May 2009
Project 04516



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Environmental
Water Resources
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